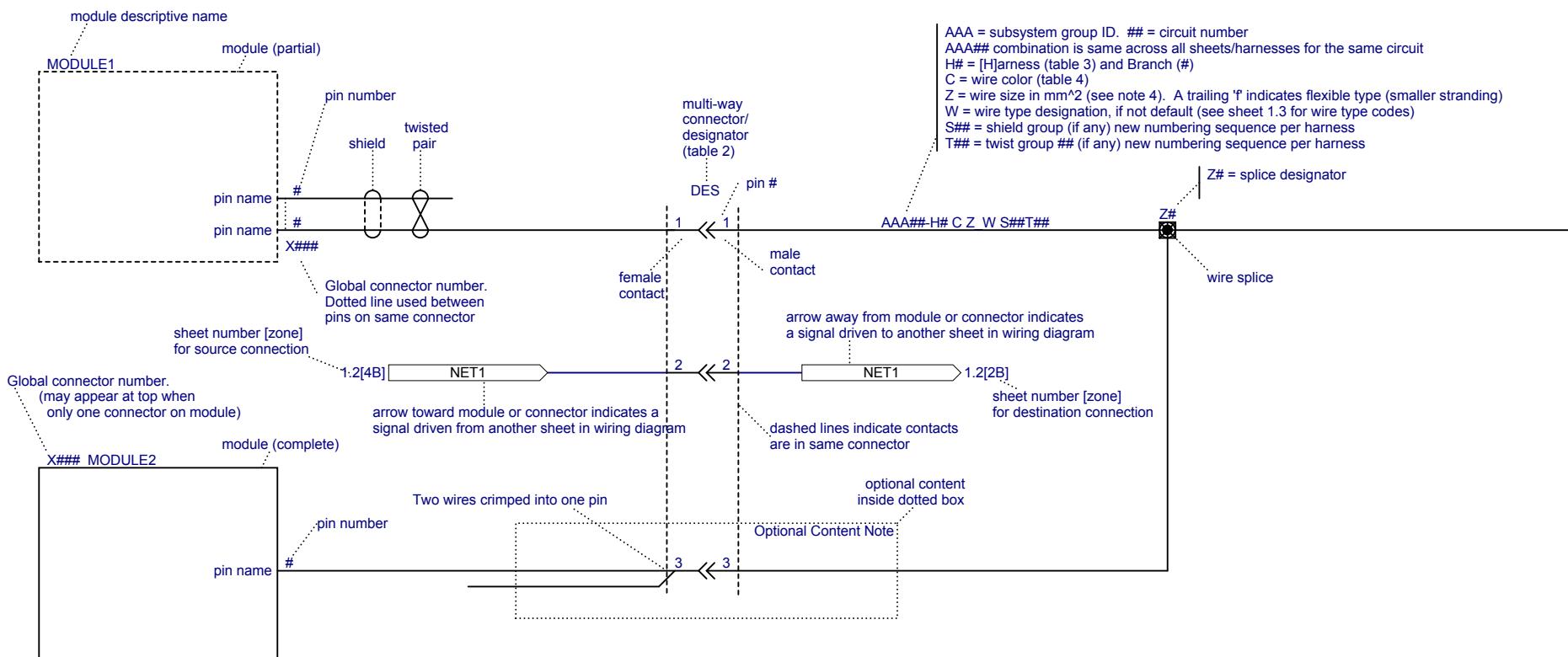


1	2	3	4	5	6
A	Section	DESCRIPTION			
	1	Table of Contents and Legend			
	2	Change History			
	3	Base Audio wiring			
	4	Premium Audio wiring (in addition to base wiring)			
	5	Antenna connections			
	6	Infotainment non-Antenna connections			
	7	MCU/Infotainment vehicle interfaces			
	8	Security, Passive Entry, Horns			
	9	Chassis - Stability and ABS, park brake			
	10	Chassis - Power Steering and Steering wheel controls			
B	11	Chassis - Air suspension system			
	12	Body - LF Door (see section 31 for side mirror)			
	13	Body - LR Door			
	14	Body - RF Door (see section 31 for side mirror)			
	15	Body - RR Door			
	16	Powertrain - HV Battery and Chargers			
	17	Body - Exterior Lights, Front			
	18	Body - Exterior Lights, Rear, including Tailgate			
	19	Body - Front Cargo Hatch			
	20	Body - Rear Cargo Hatch / Power Liftgate			
	21	HVAC - Thermal Controller Sensors, Valves and Inlet Louvers			
	22	HVAC - Coolant Pumps / Condenser Fans / Cabin Function			
	23	HVAC - Thermal Controller, Solenoids, Relay Drive, Rear Defrost, Air PTC, Compressor			
C	24	Powertrain - HVIL and High Voltage architecture			
	25	Body - Wiper/Washer System			
	26	Passive Safety Restraints System			
	27	Body - Overhead control module, Intrusion/Tow detection, Powered Sunroof			
	28	Powertrain - Drive Inverter, Accelerator Pedal			
	29	Body - LF Seat			
	30	Body - RF Seat			
	31	Body - Side Mirrors			
	32	Body - Interior Lighting			
	33	Parking Aids, Rear View Camera			
	34	Advanced Safety - Blind Zone and Forward Camera			
	35	Chassis CAN Network			
	36	Body CAN Network			
	37	Body Fault-Tolerant CAN Network			
	38	PowerTrain CAN Network			
	39	Diagnostic Connections			
D	40	Battery and Permanent Power Distribution			
	41	Switched 12V Power Distribution			
	42	Ground Distribution			
	43	Layout and Function of Fuse/Relay Boxes			
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1	2	3	4	5	6

A

1



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PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME:  
Legend

ITEM NO.

**PHASE:  
SOP(2012)**

DATE:

SHEET 1.2

Table 1: Abbreviations

LF	Left Front	RC	Right Child (rear-facing)
RF	Right Front	MF	Middle Front
LR	Left Rear	-	-
RR	Right Rear	-	-
LC	Left Child (rear-facing)	-	-

Table 2: Multi-way Connector Designators

LFDHC	LF Door Harness Connector	CCHC	Center Console Harness Connector
LRDHC	LR Door Harness Connector	IPHC(L/R)	Instrument Panel Harness Conenctor (Left/Right)
RFDHC	RF Door Harness Connector	RSFHC	Rear Subframe harness connector
RRDHC	RR Door Harness Connector	-	-
TGHC	TailGate Harness Connector	-	-

Table 3: Harness Designators

A	Body Harness, Left Floor	N	Front Harness, Right Side
B	Body Harness, Right Floor	P	Front Passenger (RF) Door Harness
C	Center Console	Q	Front Harness, Left side
D	Driver (LF) Door Harness	R	LR Door Harness
E	Sunroof Subsystem Harness	S	RR Door Harness
F	Front Bumper Harness	T	Tailgate Harness - Right
G	Rear Bumper Harness	U	Tailgate Harness - Left
H	High Voltage Wiring (for reference only)	V	HVAC Unit Subharness (part of assembly)
J	Instrument Panel (Dashpad) Harness	W	Steering Wheel Harness (from Clockspring out)
K	Headliner	X	Rear subframe subharness
L	Front End Module	Y	tbd
M	Main Harness, Lower IP and Front Trunk area	Z	Single Cables - Each circuit is a separate assembly

Table 4: Wire Color Designators

BK	Black	LB	Light Blue	RD	Red	NA	coax-center
BR	Brown	LG	Light Green	TN	Tan	SH	coax-shield
DB	Dark Blue	OR	Orange	WH	White	-	-
DG	Dark Green	PK	Pink	YL	Yellow	-	-
GY	Gray	PU	Purple			-	-

Striped wires are indicated by base-color code "-" then stripe color code.

"BR-BK" indicates a brown wire with a black stripe.

Table 5: Wire Type Designators

TWP	SAE J1128 TWP : thin-wall 105C rated	TXL	SAE J1128 TXL : thin-wall 125C rated
STX	SAE J1127 STX : thin-wall 125C rated	SGX	SAE J1127 SGX : general purpose 125C rated
-f	flexible type (add to any type) = small strand	RFXFA	SAE J1128 TXL-f: thin-wall high-flex 125C rated

## General Notes:

- 0) Document is formatted to print on 8.5" x 11" paper. (similar to A4)
- 1) Switches [Relays] are shown in their inactive [de-energized] state.
- 2) Splices may be split across pages for visual clarity with respect to the function displayed on the particular page.
- 3) Some connectors are split across multiple pages for clarity. There is no overall reference in this document for the signals routed to a specific connector.
- 4) Wire sizes are specified in mm<sup>2</sup> cross-sectional area (CSA) per SAE 1127/8

Size Shown	Wire Specification	Usage
0.22	SAE 0.22 / 24AWG	
0.35	SAE 0.35 / 22AWG	
0.5	SAE 0.5 / 20 AWG	
0.75	SAE 0.8 / 18AWG	
1.0	SAE 1.0 / 16AWG	
2.0	SAE 2.0 / 14AWG	
3.0	SAE 3.0 / 12AWG	
5.0	SAE 5.0 / 10AWG	
8.0	SAE 8.0 / 8AWG	
13.0	SAE 13.0 / 6AWG	
20.0	SAE 19.0 / 4AWG	
32.0	SAE 32.0 / 2AWG	

5) Wire specification: 60V, thin-wall PVC (SAE TWP type or equivalent), unless otherwise specified in wire label. See sheet 1.2 for a description of how the wire types are shown in the wire label.

See sheet 43 for further details and to correlate specific cabling types to harness application Twisted pairs may be manufactured of above wire by harness manufacturer.

P=30mm +/-5mm for CSA<=1.0

P=60mm +/-5mm for CSA>1.0

PRM1 | PARAM | WireType | Default | TWP

6) Unless otherwise specified, terminal plating is to be Tin or Pre-Tin

7) For connectors with multiple instances of the same wire color in a similar or the same size, the terminal may not be inserted into the exact cavity specified. This applies only to joint connectors in the G### range or X700-X799 range, where the wires are connected together internally by the joint connector.

8) Inline conenctor gender specification is based on the terminal type.

Inline connectors with "M" suffix have male, tab or pin terminals

Inline connectors with "F" suffix have female, receptacle or socket terminals

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PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Notes, Abbreviations, etc.

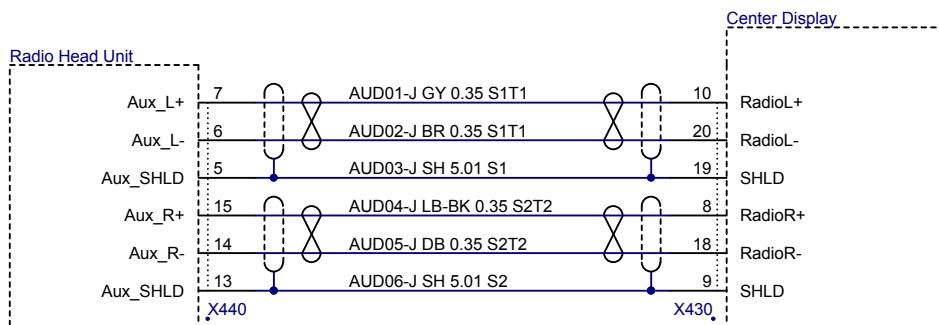
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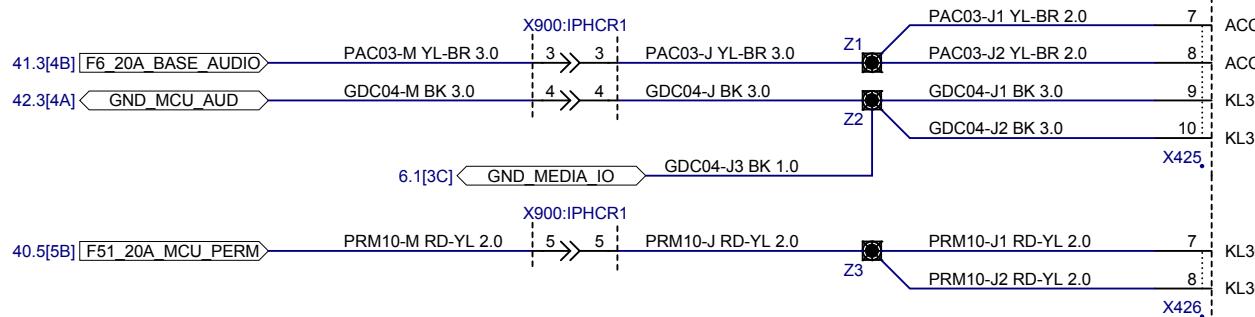
SHEET 1.3

X430, X440 UNSEALED shield terminations

A

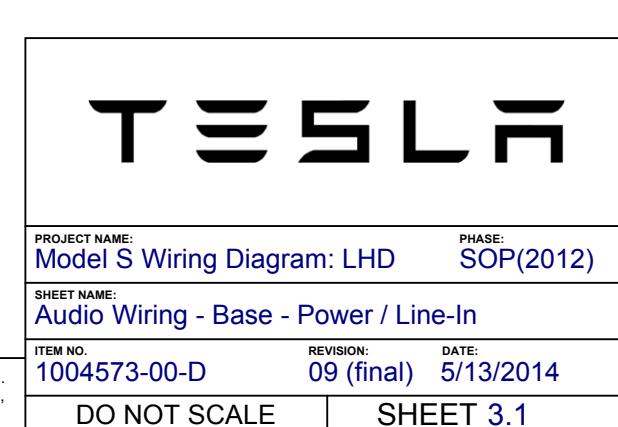


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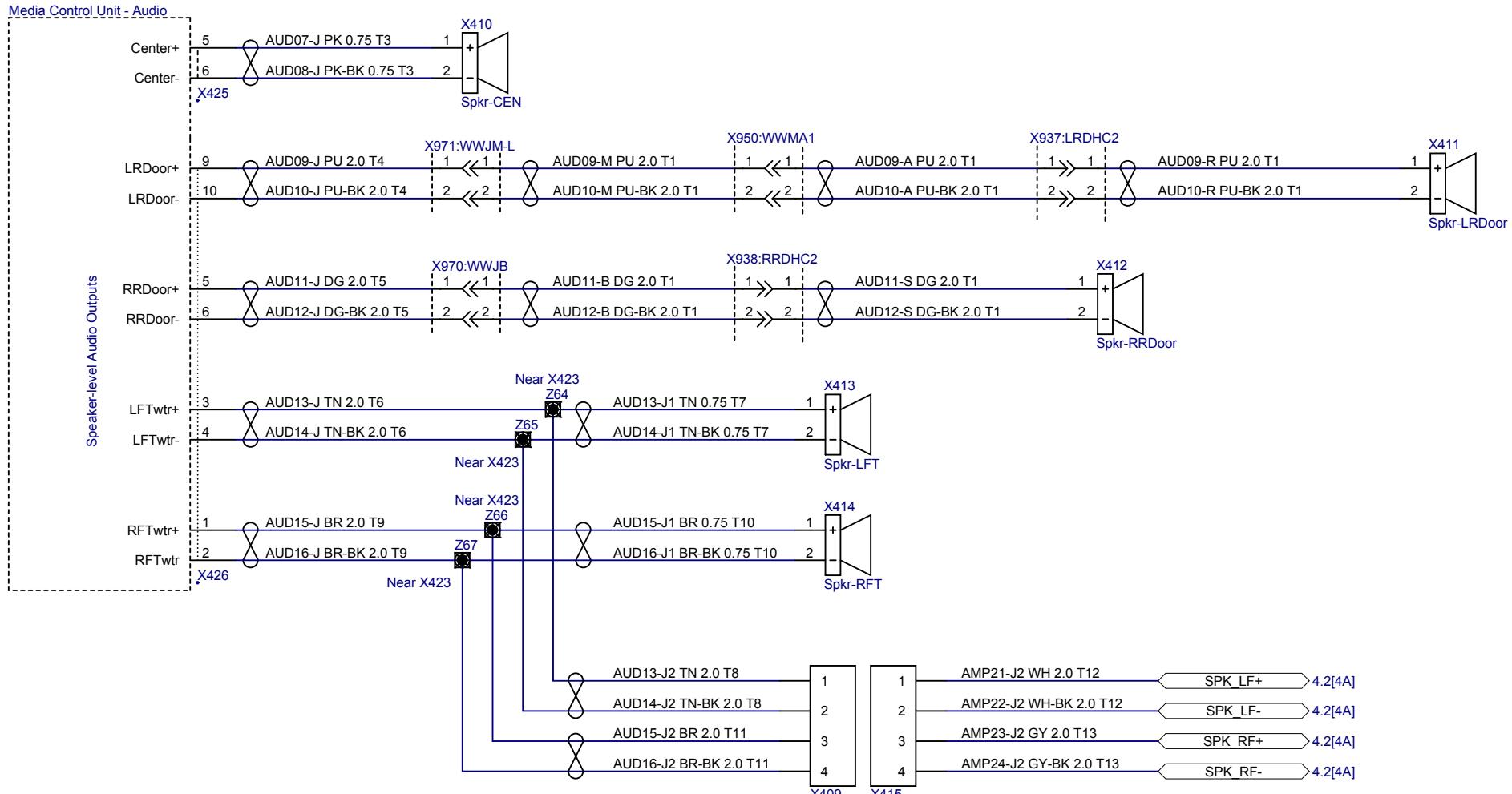


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X409 connected to X415 for base audio ONLY.

T E S L A

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Audio Wiring - Base - Speakers

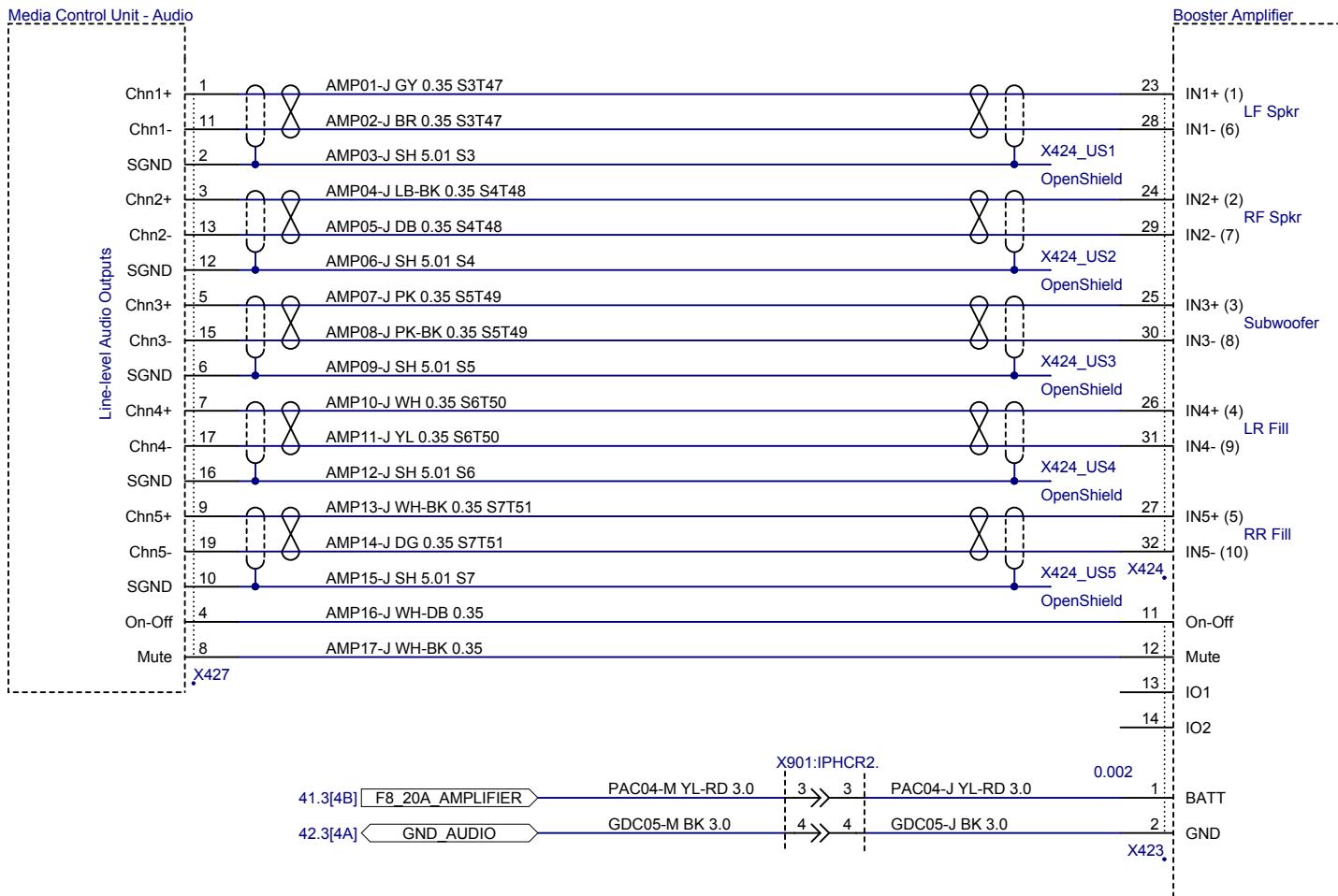
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DO NOT SCALE

SHEET 3.2

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X424, X427 UNSEALED shield terminations



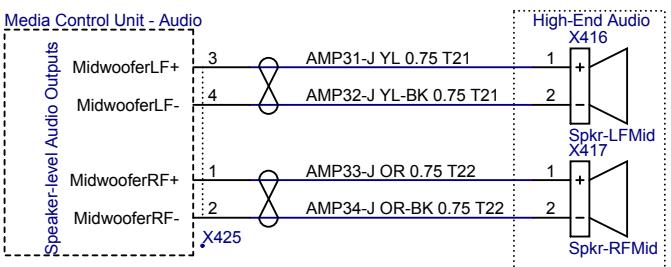
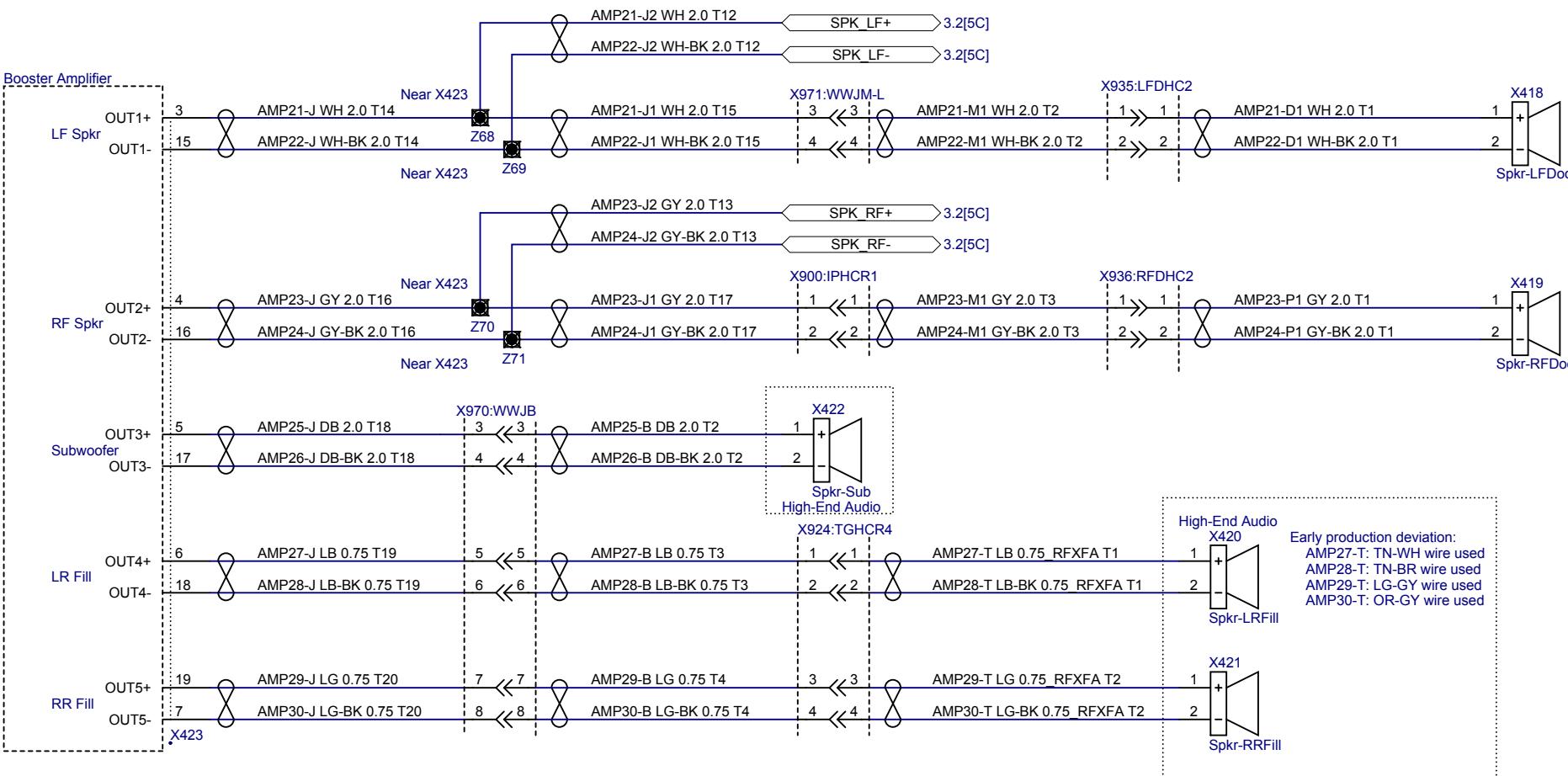
T E S L A

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Audio Wiring - Premium - Line Level Connections

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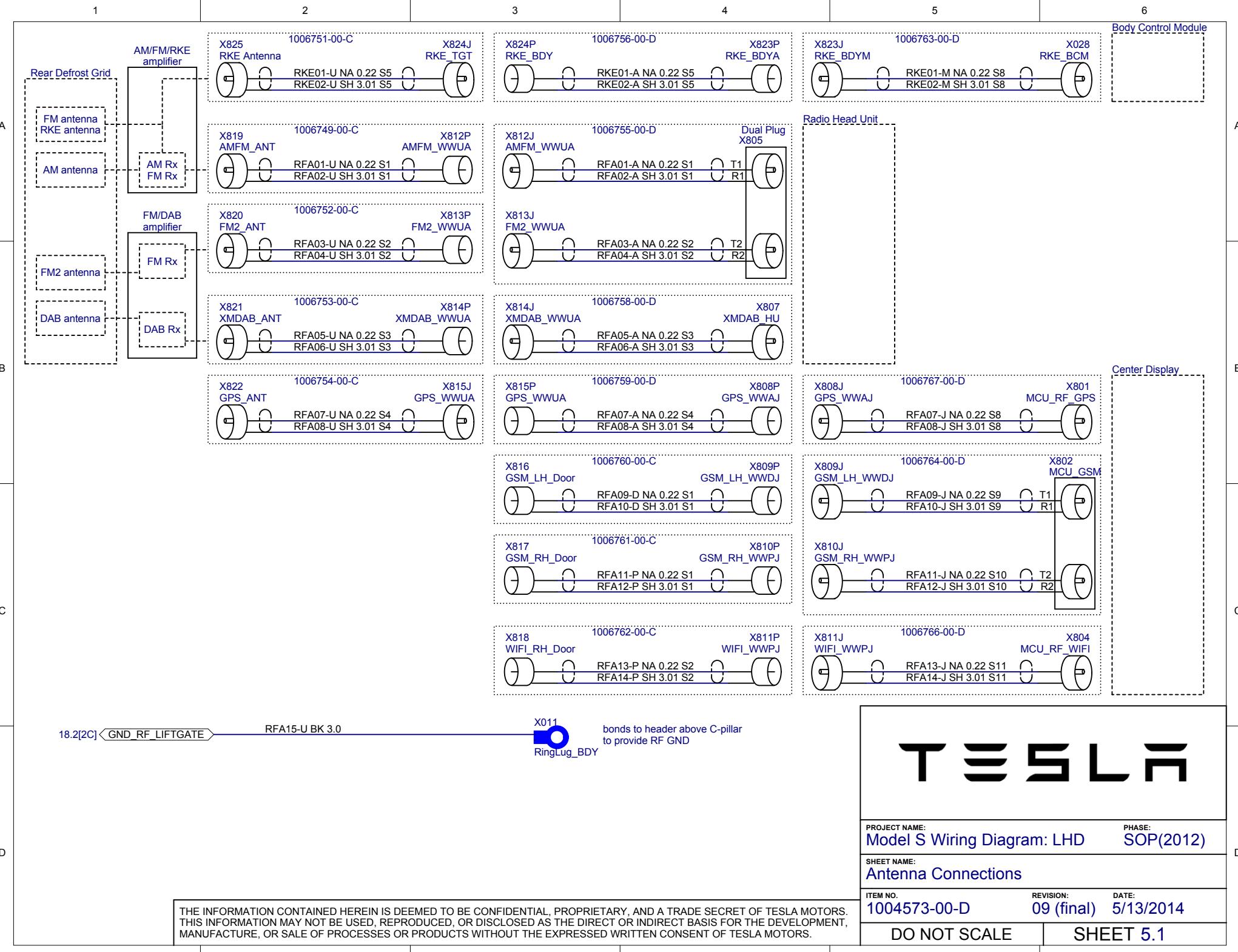
PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Audio Wiring - Premium - Speakers

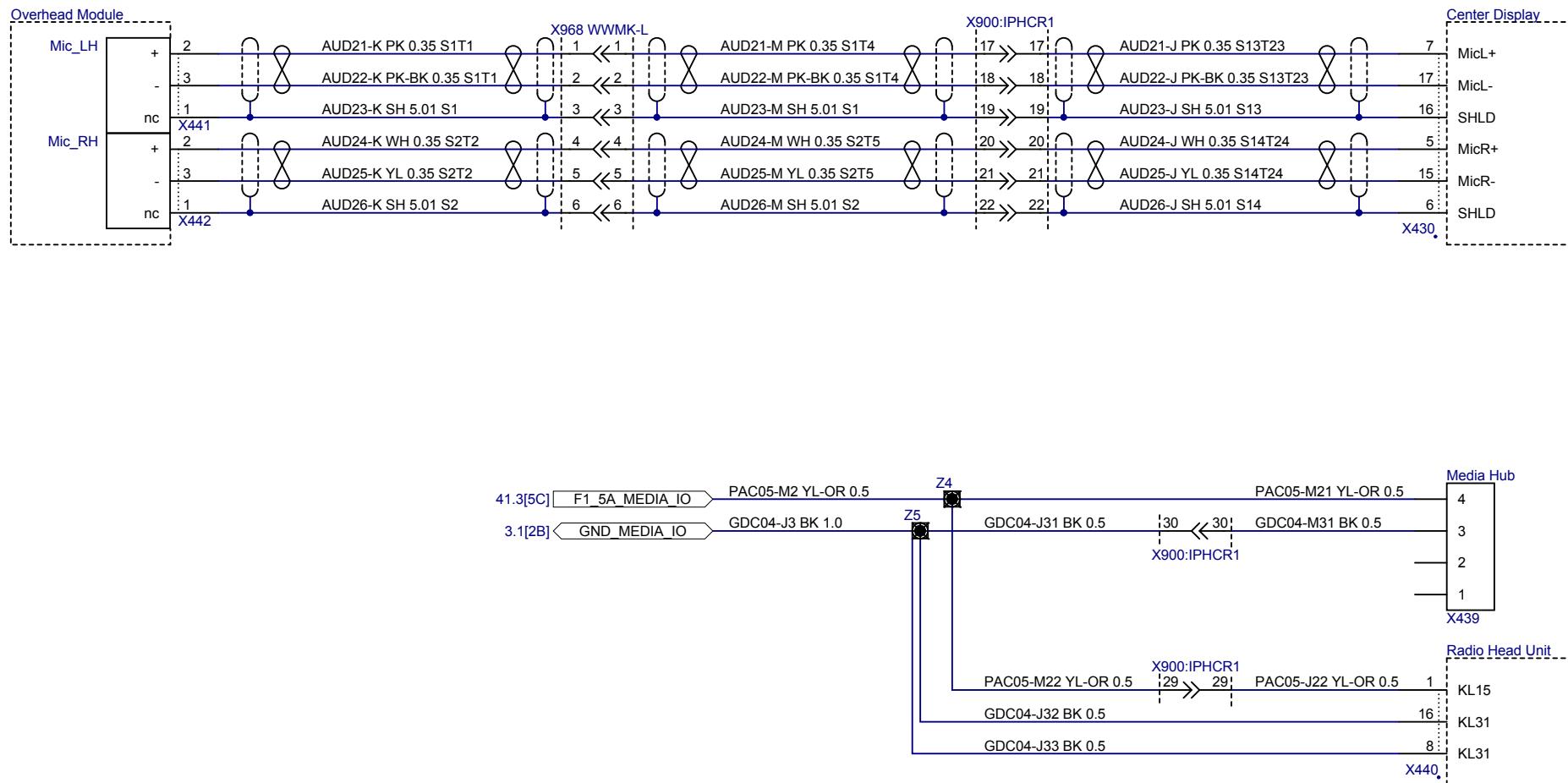
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DO NOT SCALE SHEET 4.2

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X430, X441, X442, X968 (1~6), X900 (17~21) UNSEALED shield terminations



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PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: **Center Display - Microphone and USB**

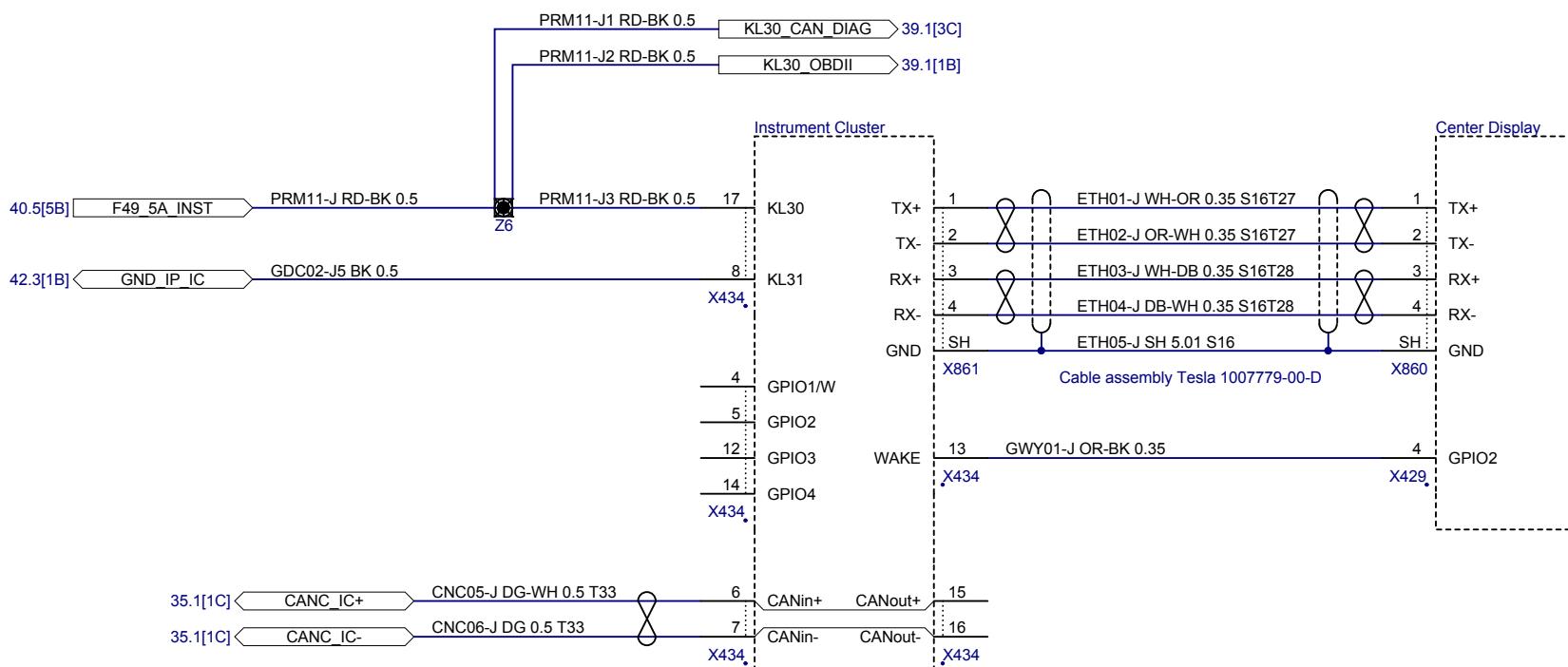
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**DO NOT SCALE**

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## SHEET 6.1

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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Center Display - Instrument Cluster

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

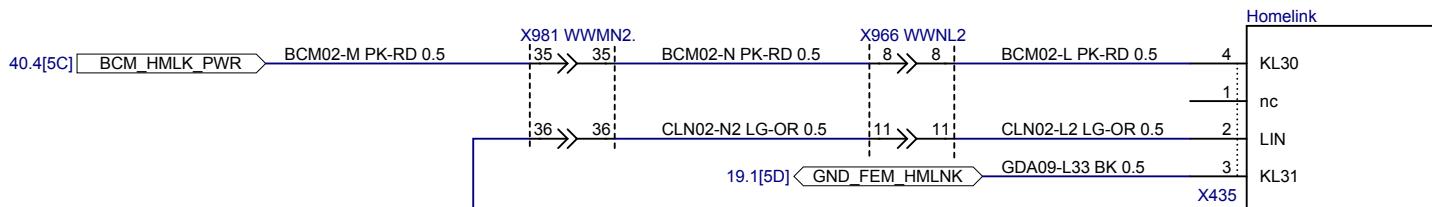
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SHEET 7.1

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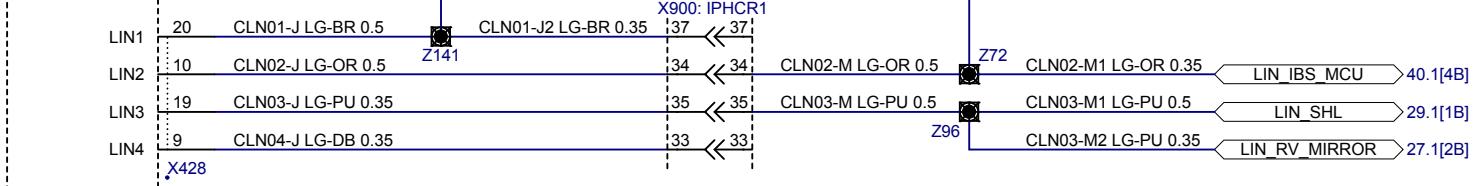
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Center Display



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C

# TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

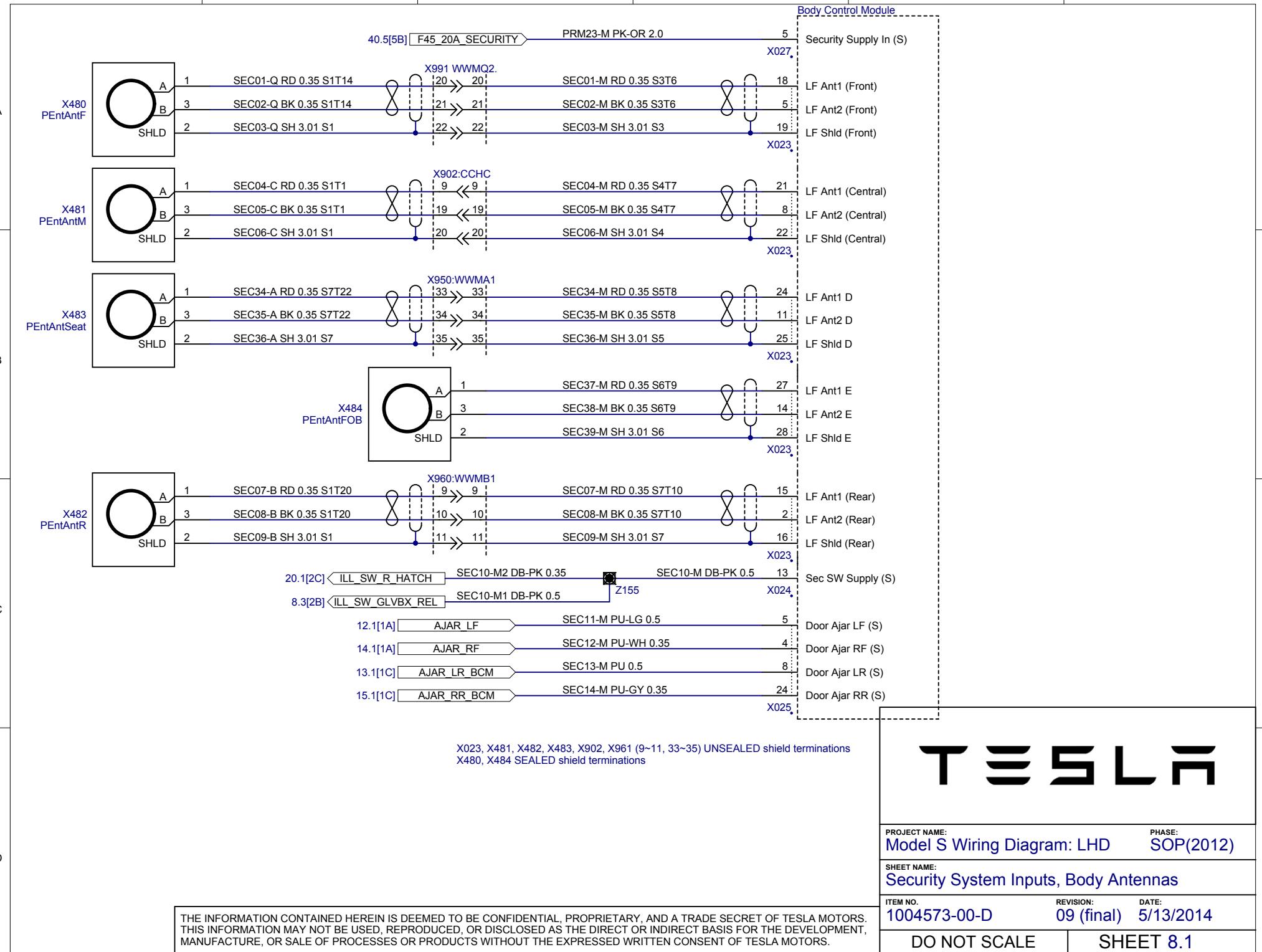
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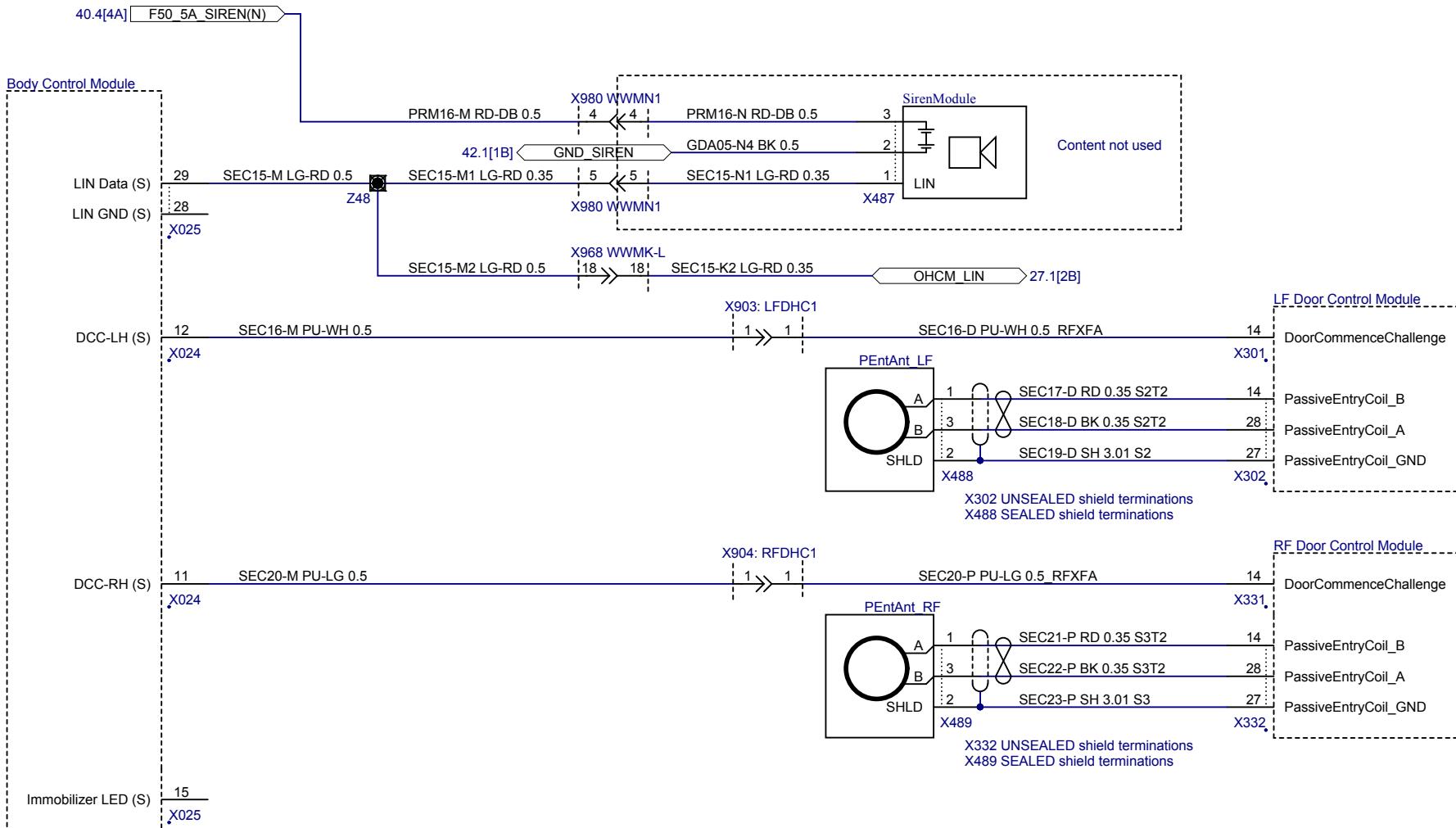
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SHEET 7.2

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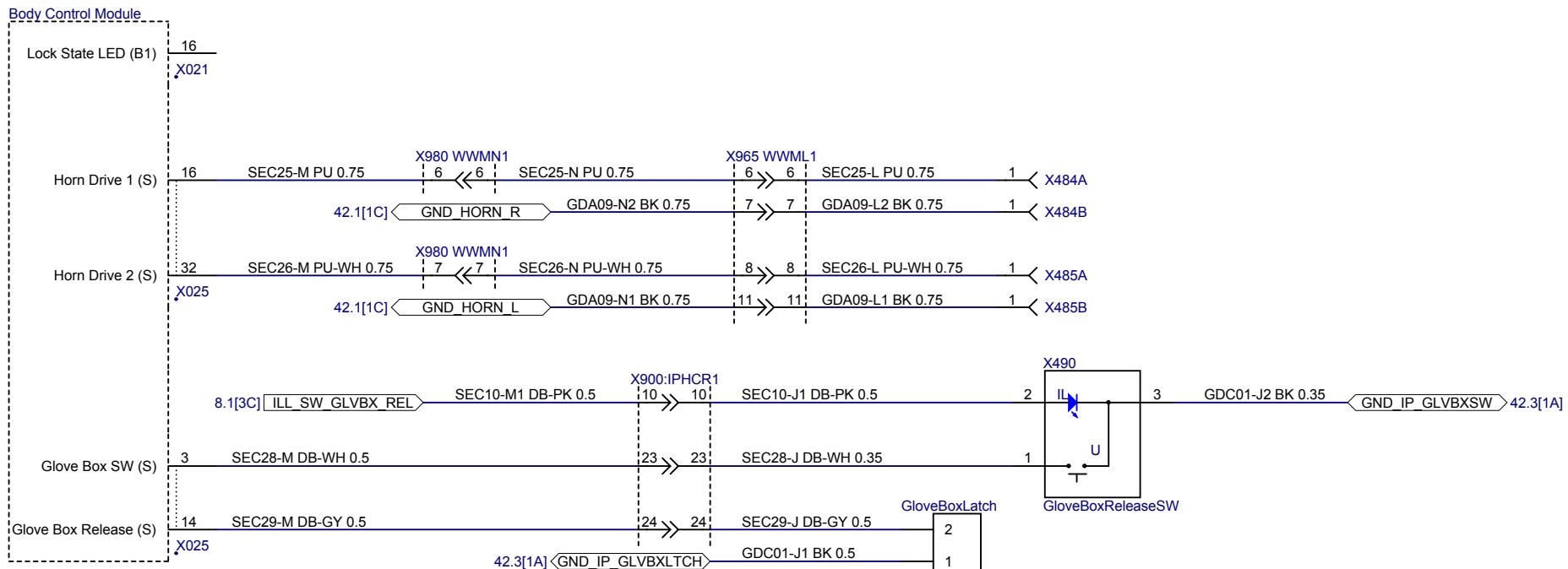
T E S L A

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Security System Horns and Glove Box

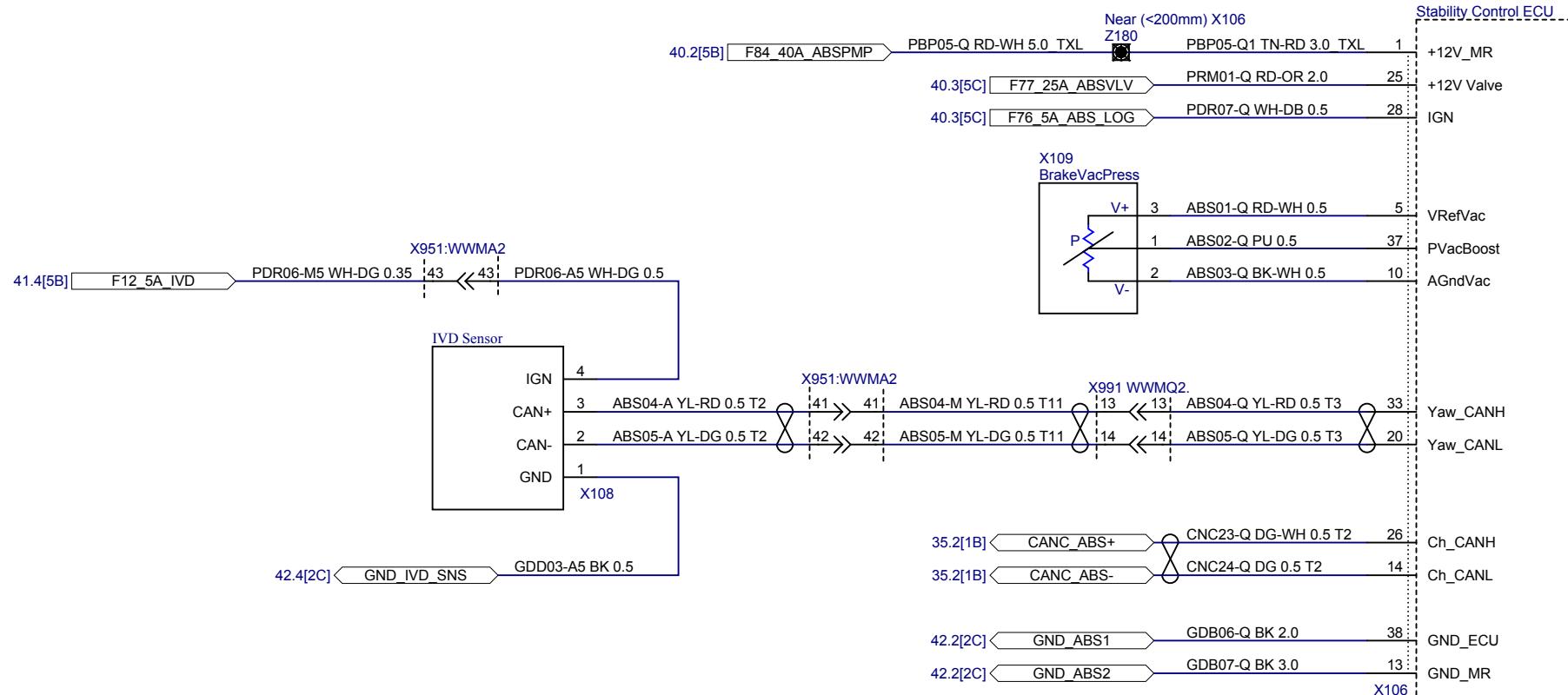
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SHEET 8.3

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# TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Chassis - Stability and Anti-Lock Braking

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

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SHEET 9.1

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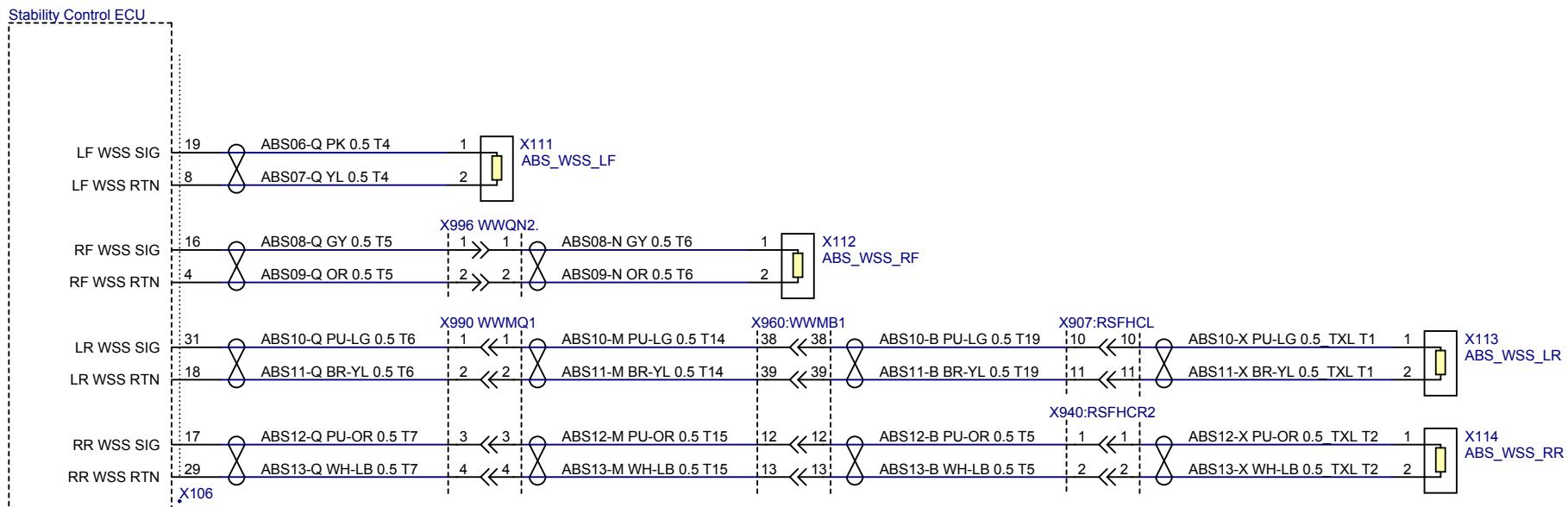
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D



**TESLA**

PROJECT NAME: **Model S Wiring Diagram: LHD** PHASE: **SOP(2012)**

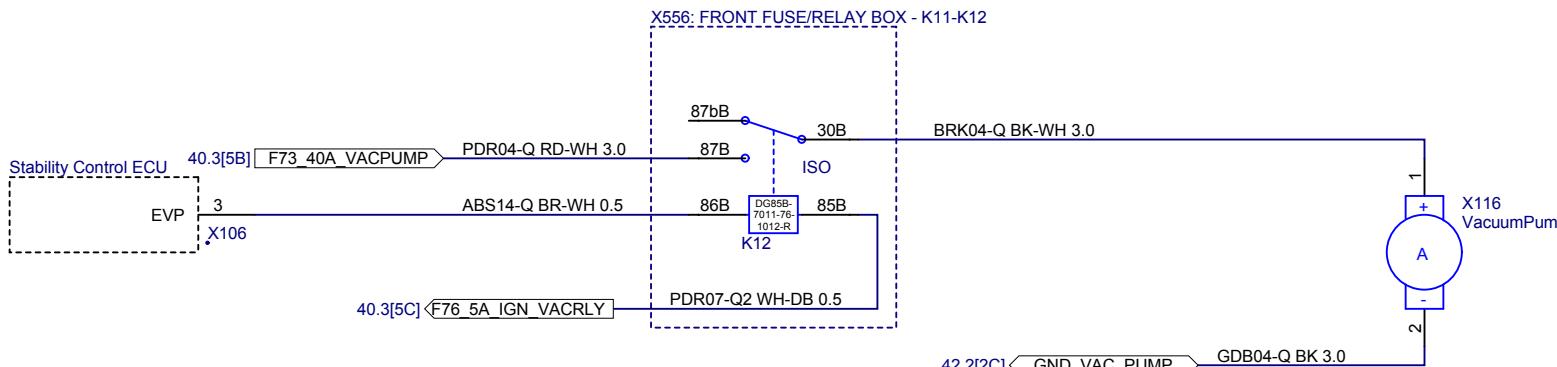
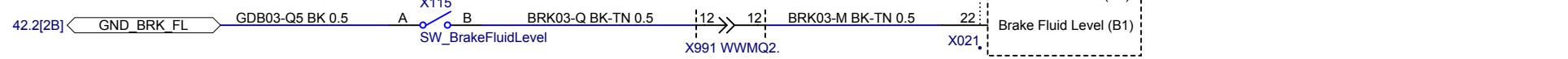
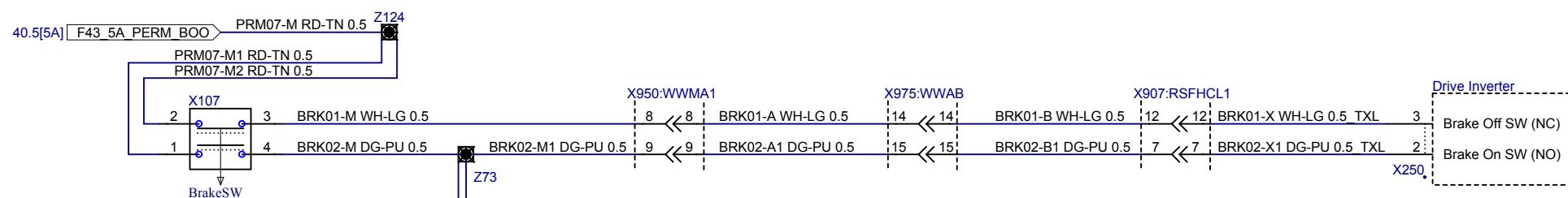
SHEET NAME: **Chassis - Stability and Anti-Lock Braking**

ITEM NO. **1004573-00-D** REVISION: **09 (final)** DATE: **5/13/2014**

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SHEET **9.2**

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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Chassis - Brake Switch and Booster

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SHEET 9.3

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A

A

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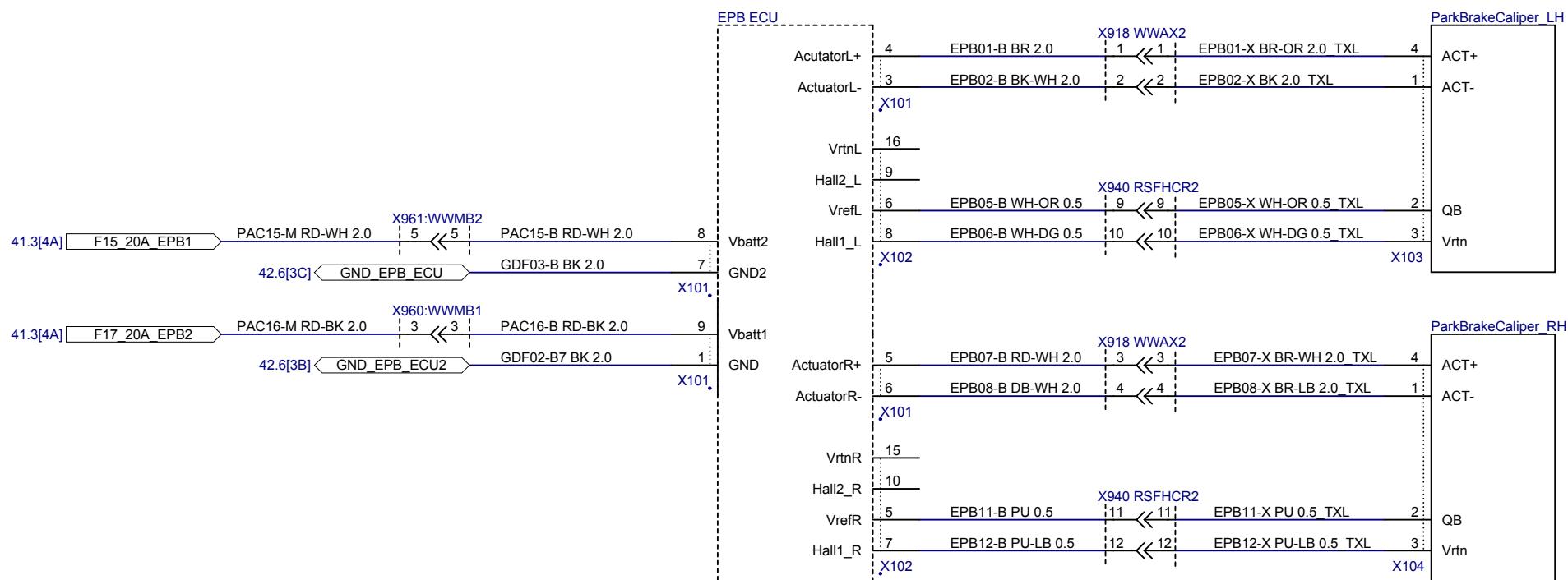
B

C

C

D

D



**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Chassis - Electronic Park Brake

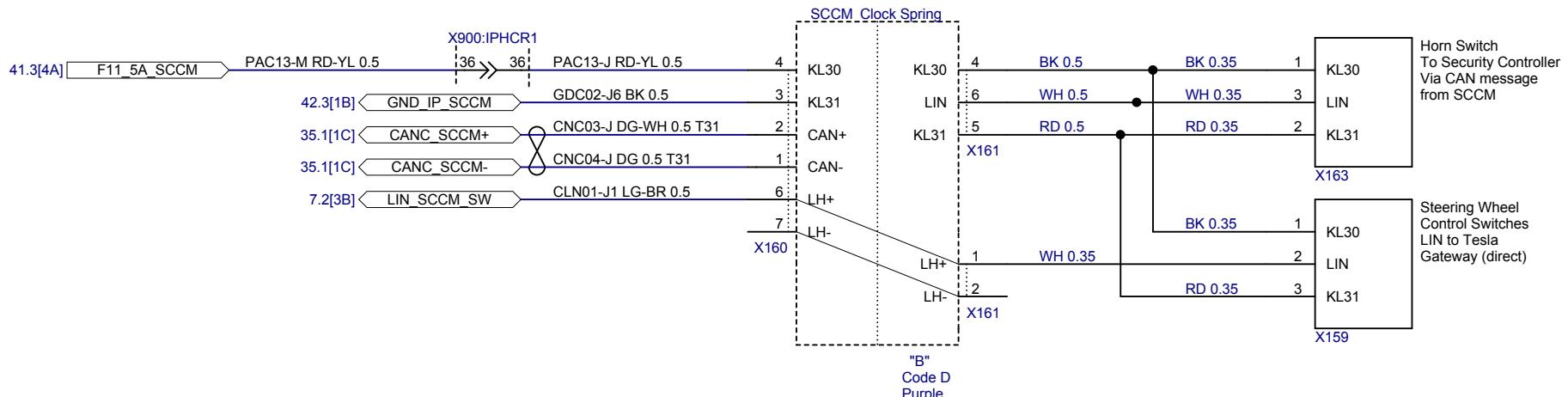
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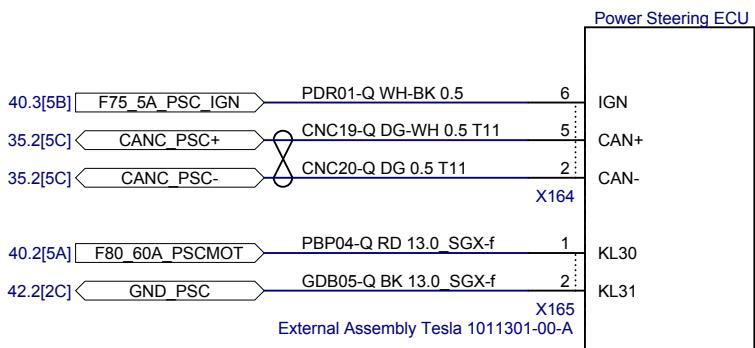
SHEET 9.4

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A



B



C

TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Chassis - Steering Wheel Controls / Power Steering

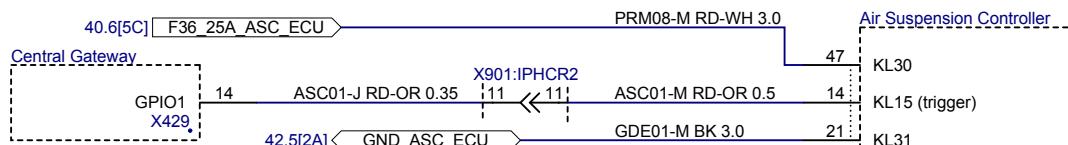
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

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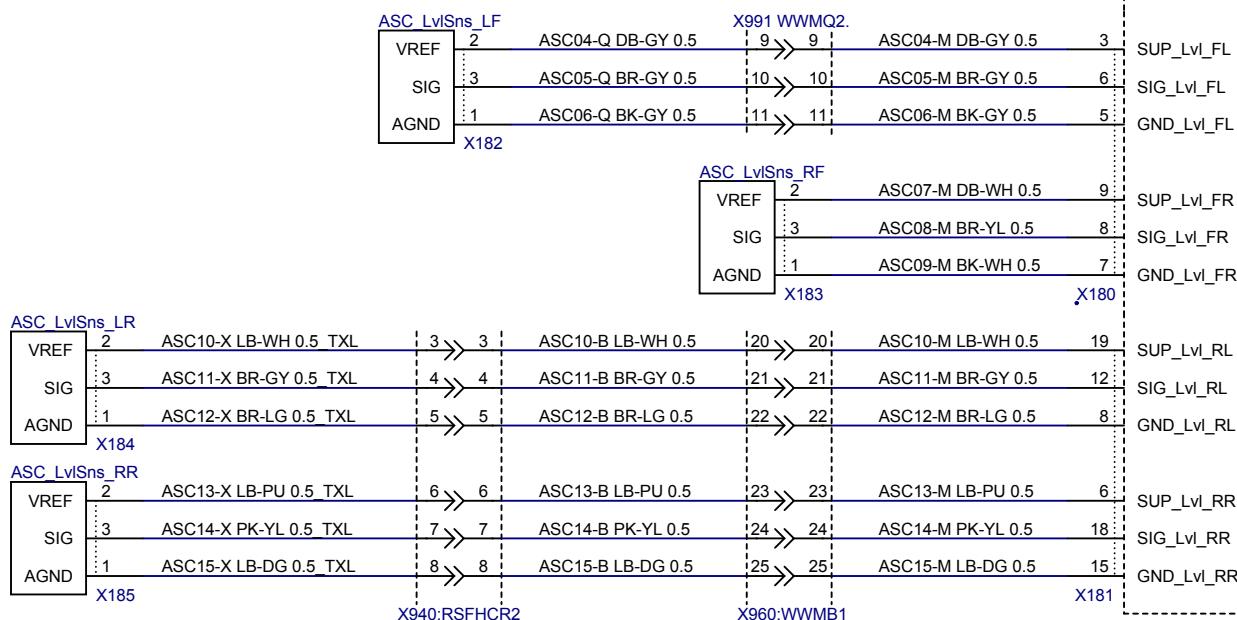
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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

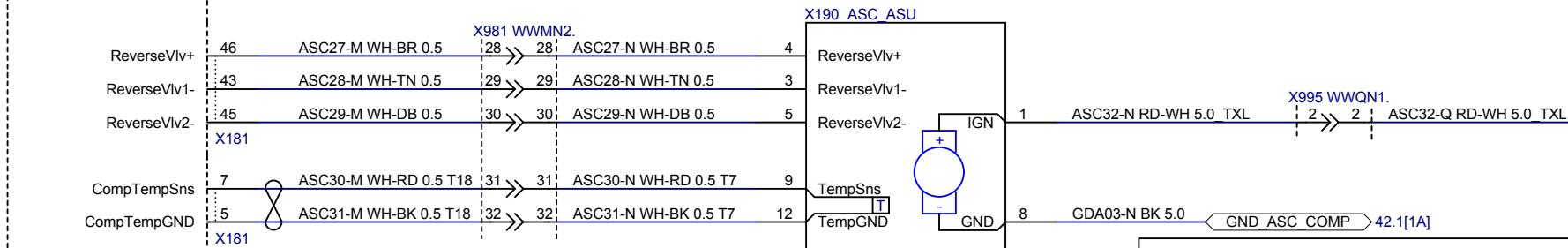
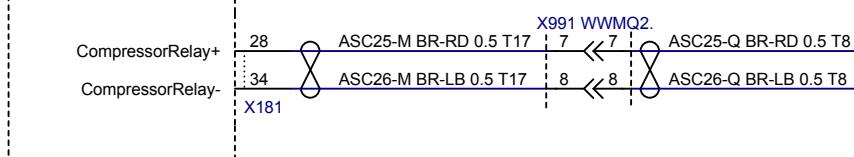
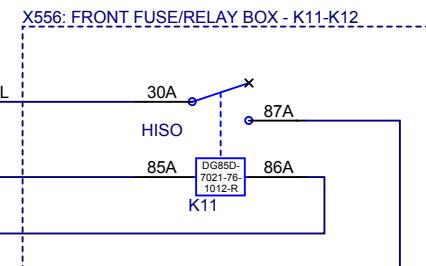
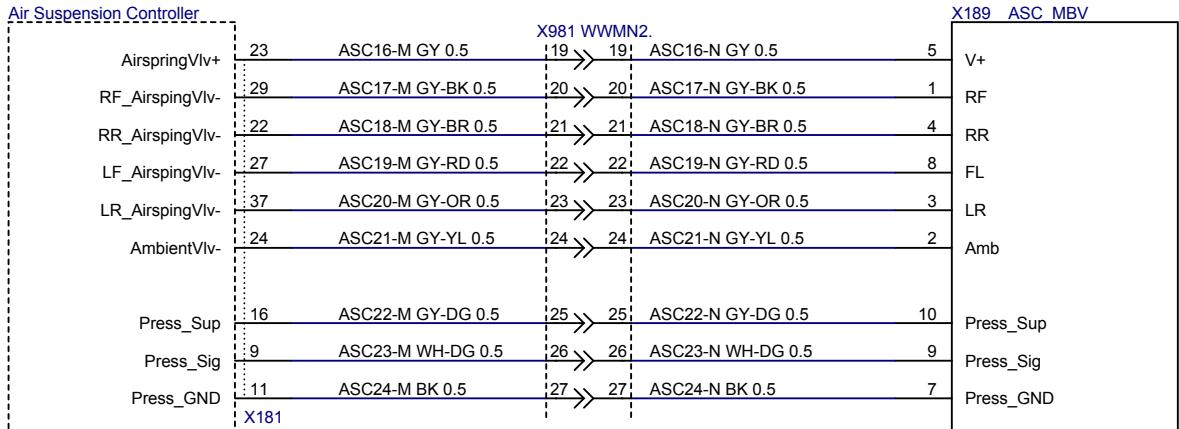
SHEET NAME: Chassis - Air Suspension Sensors and Power

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SHEET 11.1

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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Chassis - Air Suspension Control

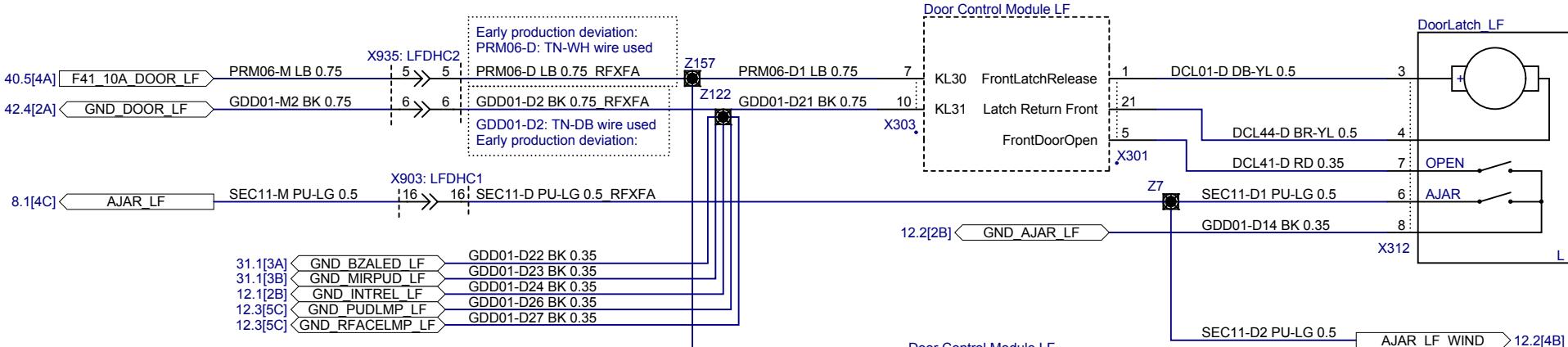
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

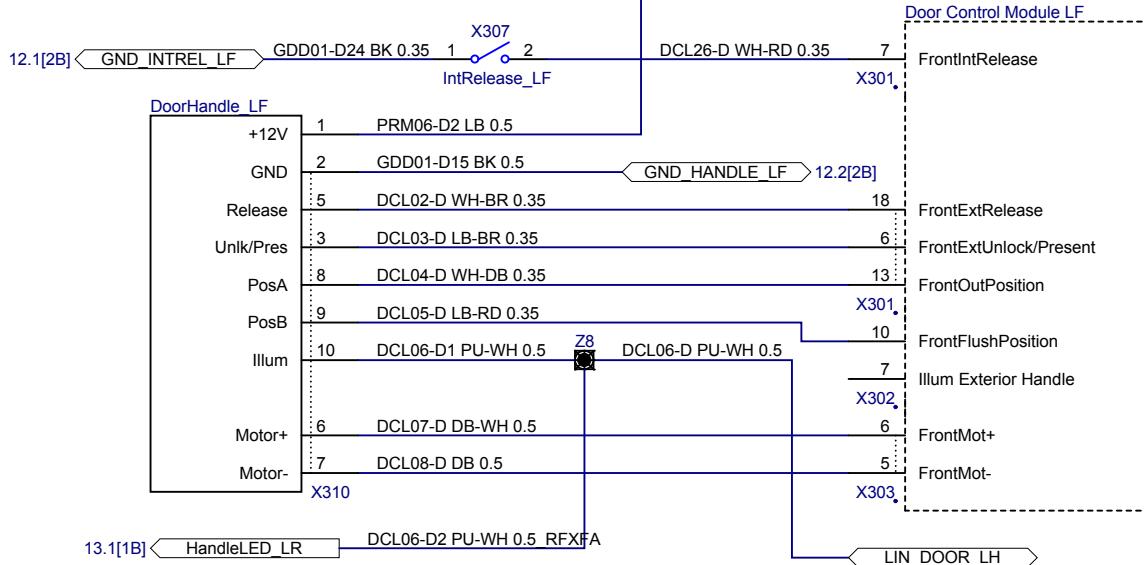
SHEET 11.

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

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13.1[1B] HandleLED\_LR DCL06-D2 PU-WH 0.5 RFXFA LIN\_DOOR\_LH

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THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

**TESLA**

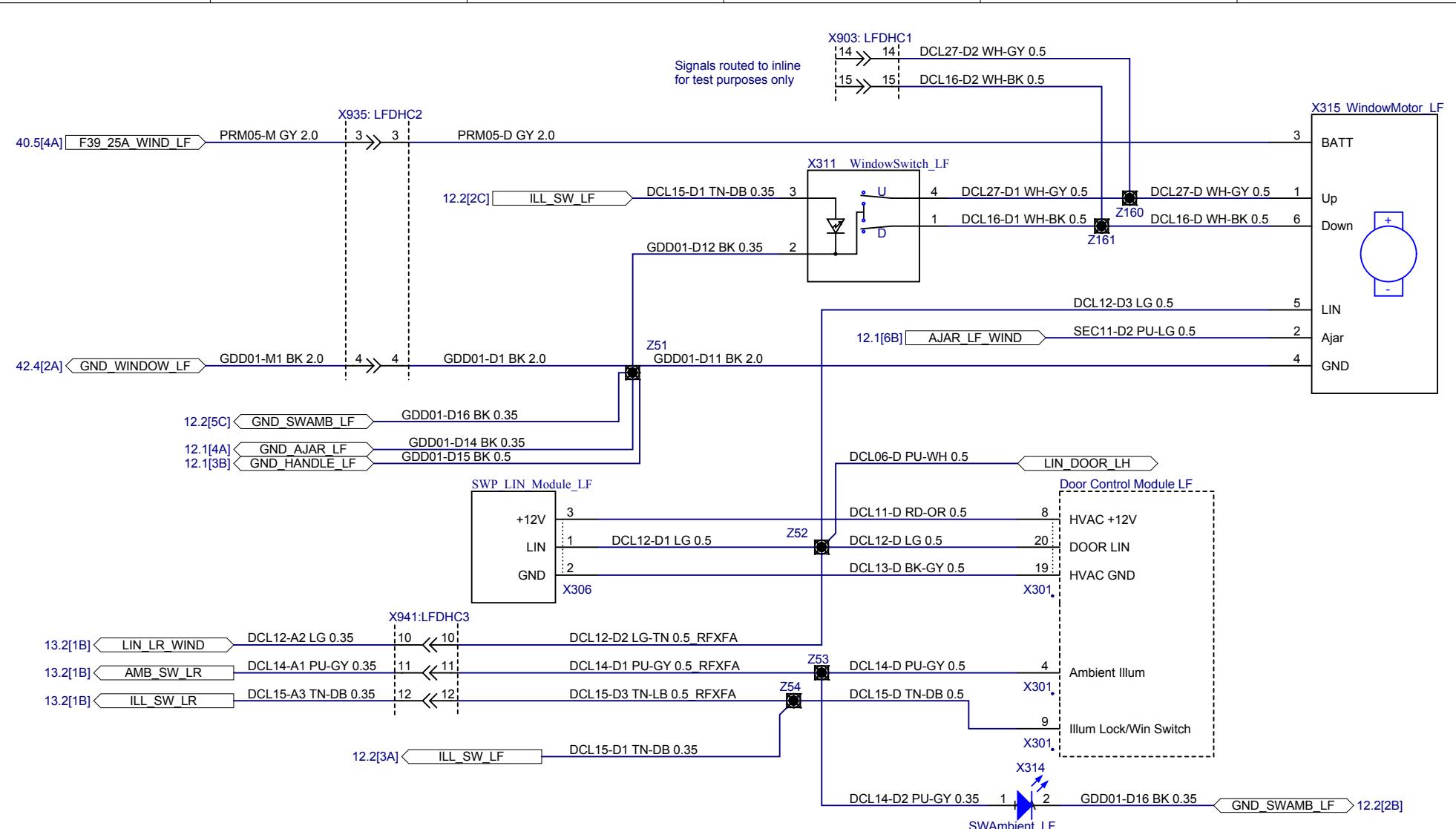
PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Left Front Door - Handle and Latch

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 12.1



LIN Switch module (X306) installed only on driver's door. Simple window switch wiring is maintained to allow for future RHD models without changing door harness.

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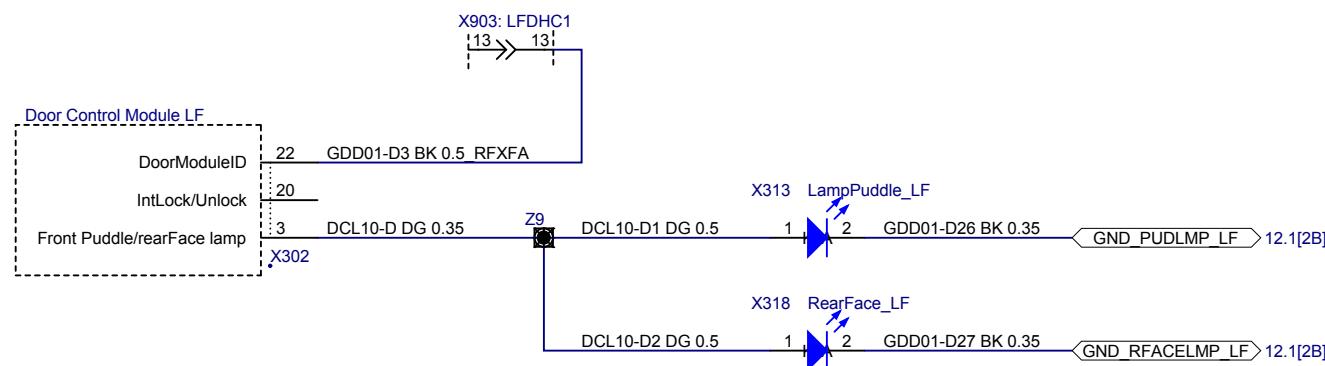
PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

**SHEET NAME:** Left Front Door - Window and Switches

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

**DO NOT SCALE**

SHEET 12.2



X302-22 is grounded in RHD to indicate passenger door.

TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

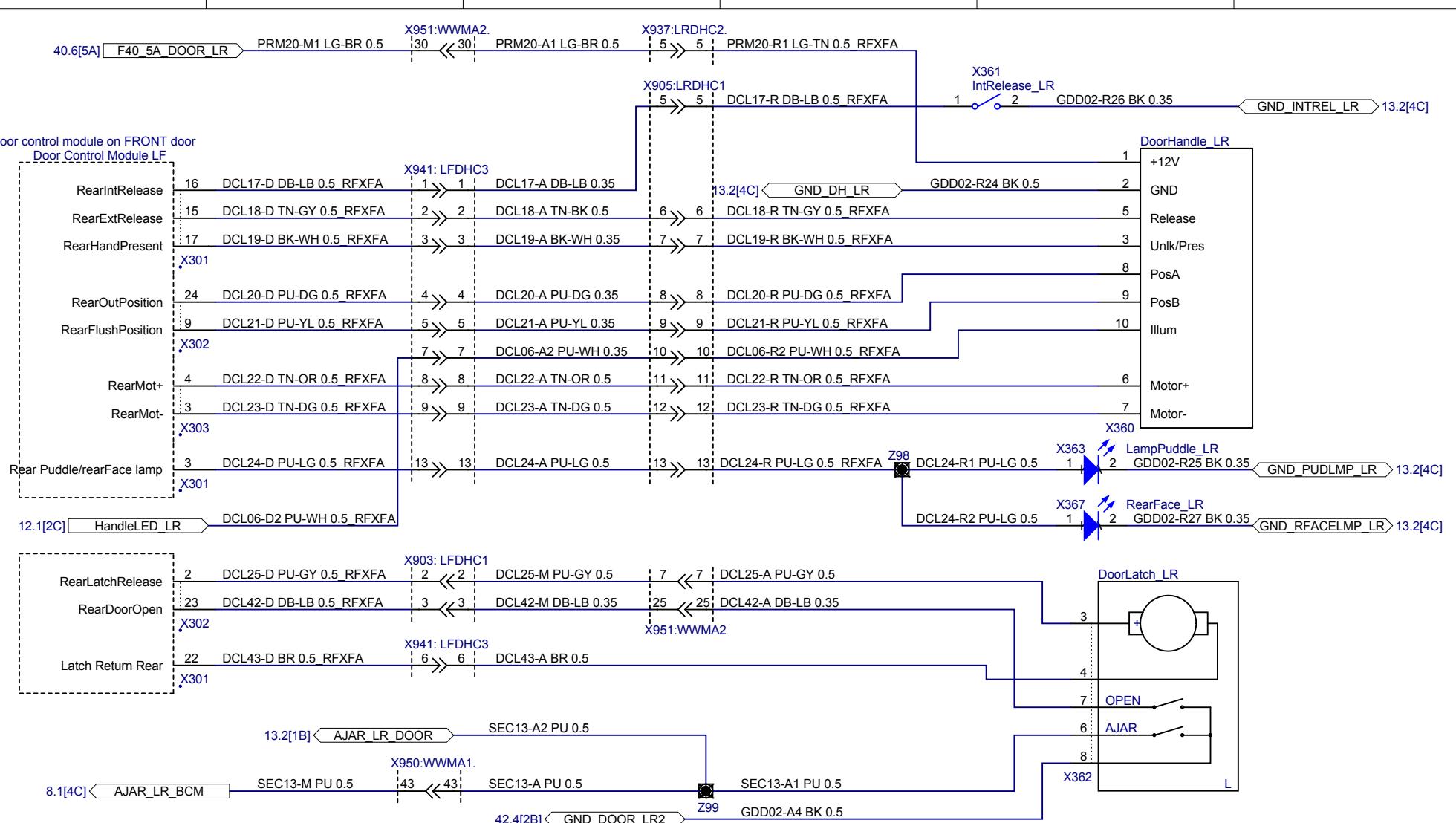
SHEET NAME: Left Front Door - Exterior Illumination

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

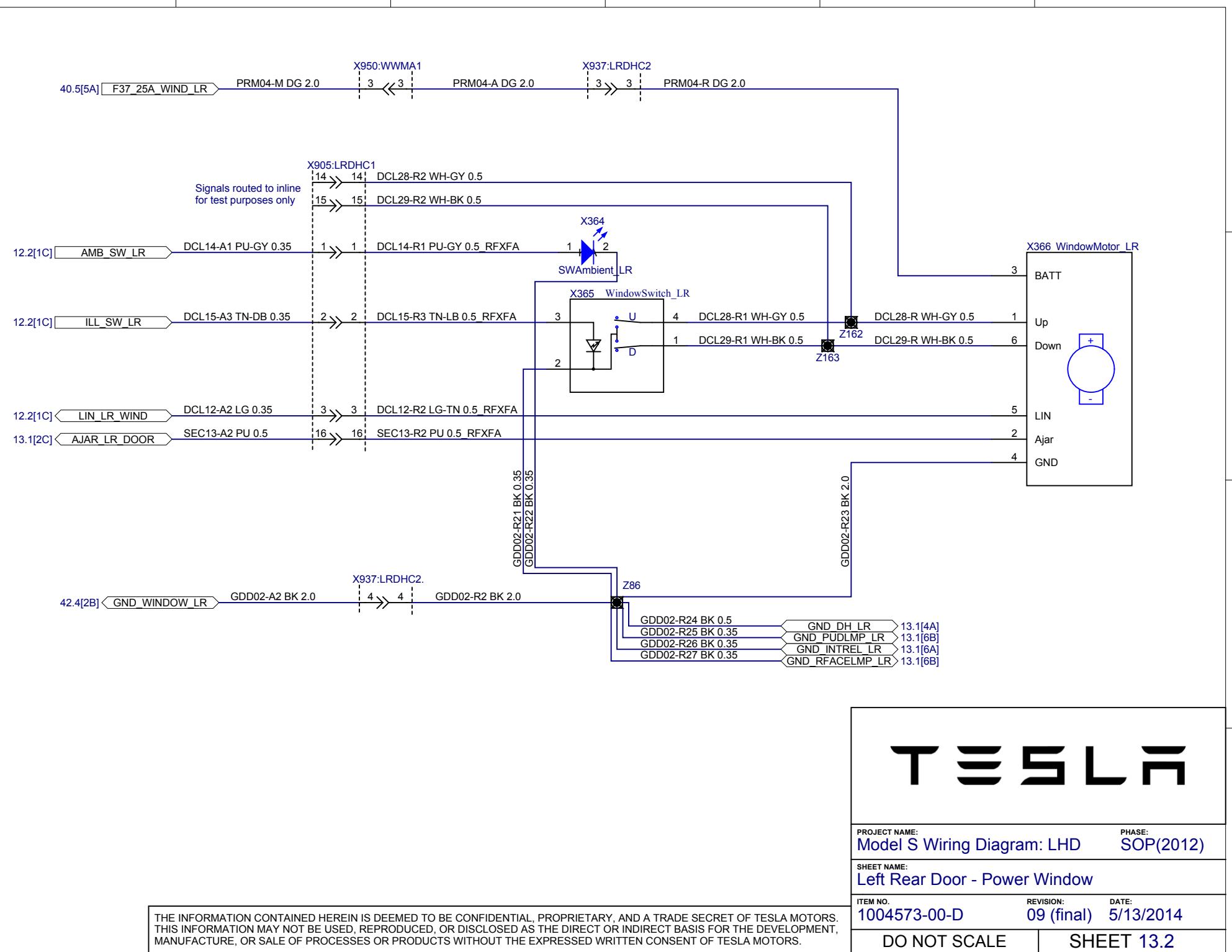
SHEET 12.3

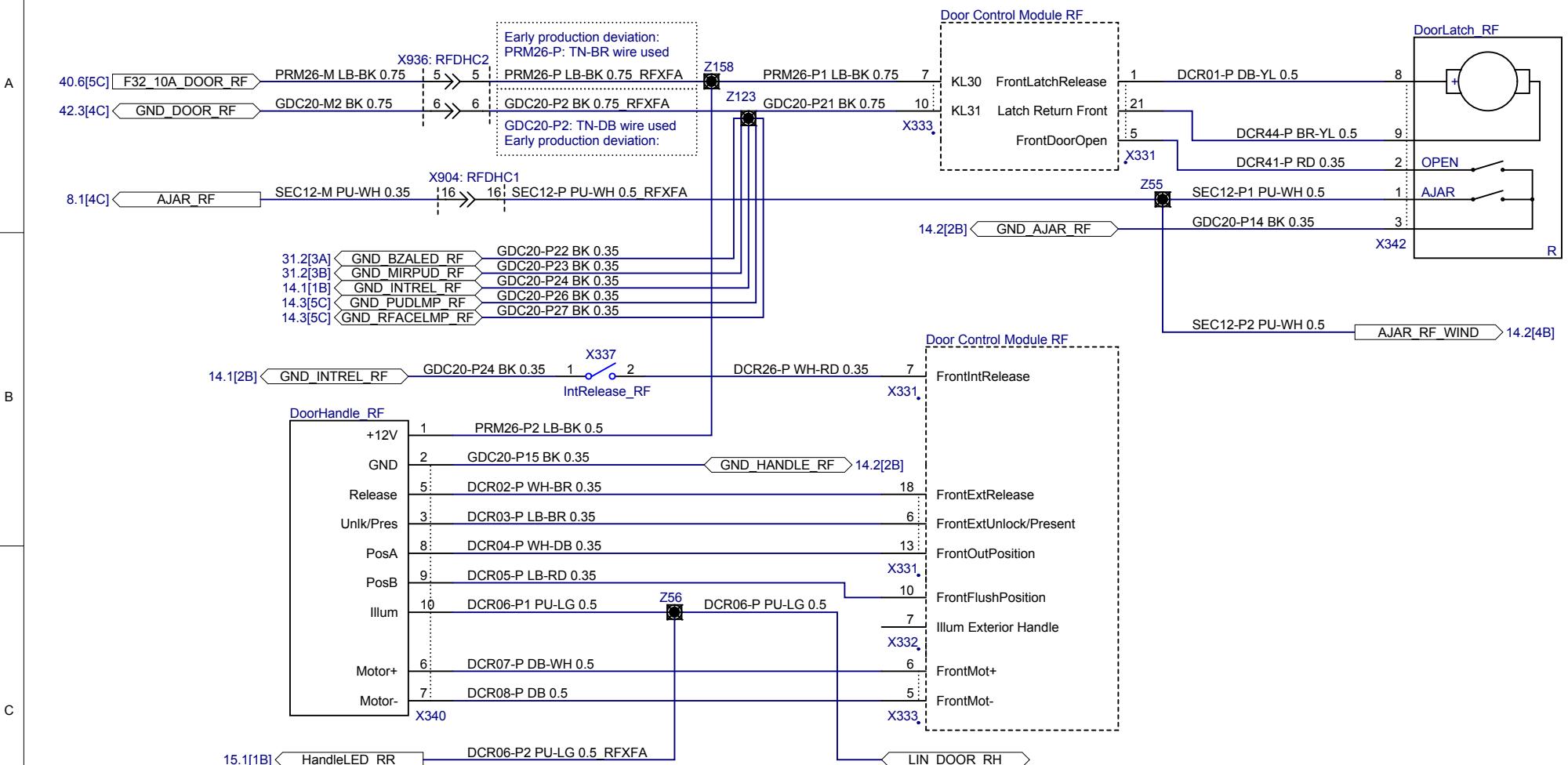
THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.



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PROJECT NAME:	Model S Wiring Diagram: LHD		PHASE:	SOP(2012)	
SHEET NAME:	Left Rear Door - Handle and Latch				
ITEM NO.	1004573-00-D	REVISION:	09 (final)	DATE:	5/13/2014
DO NOT SCALE		SHEET 13.1			





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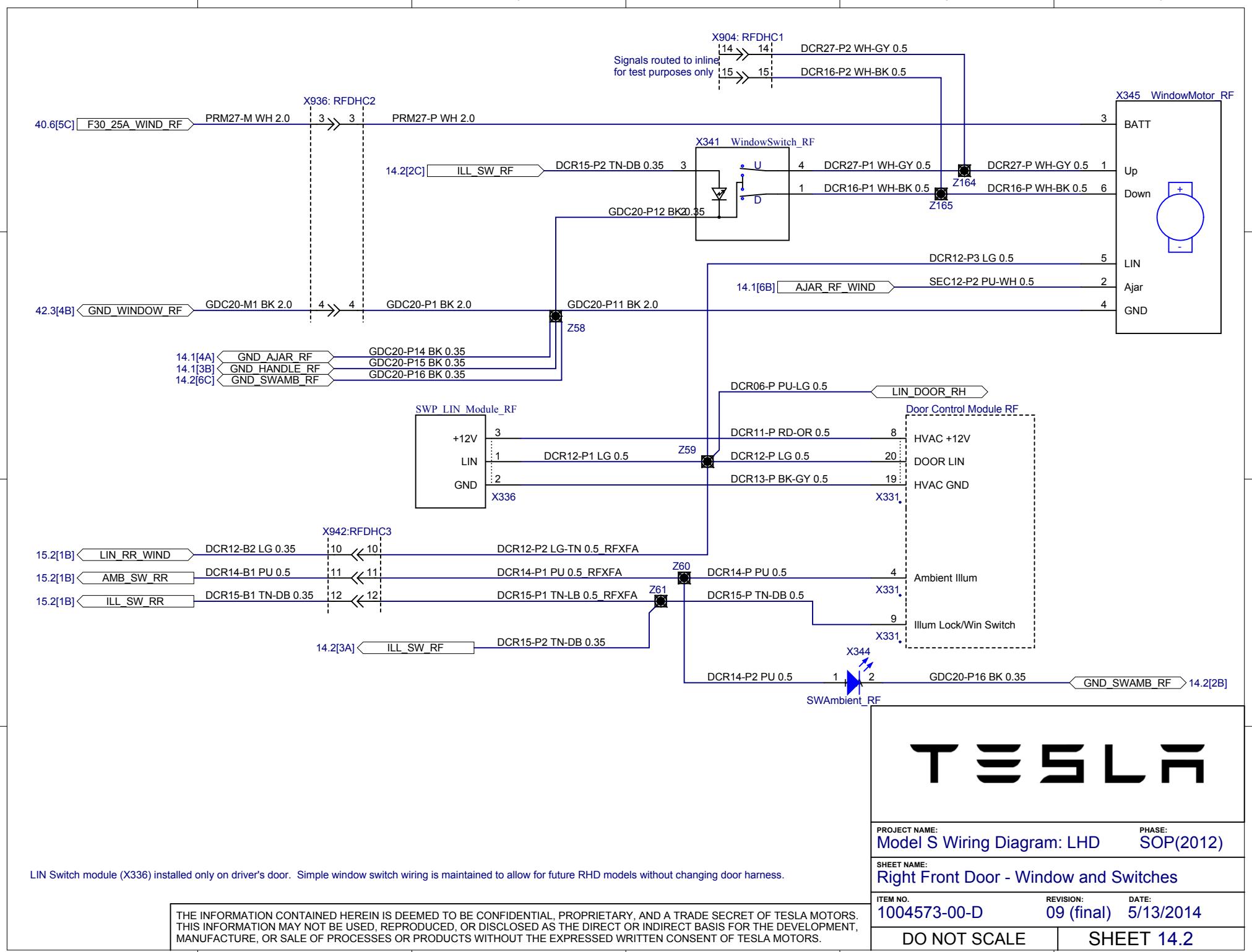
PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

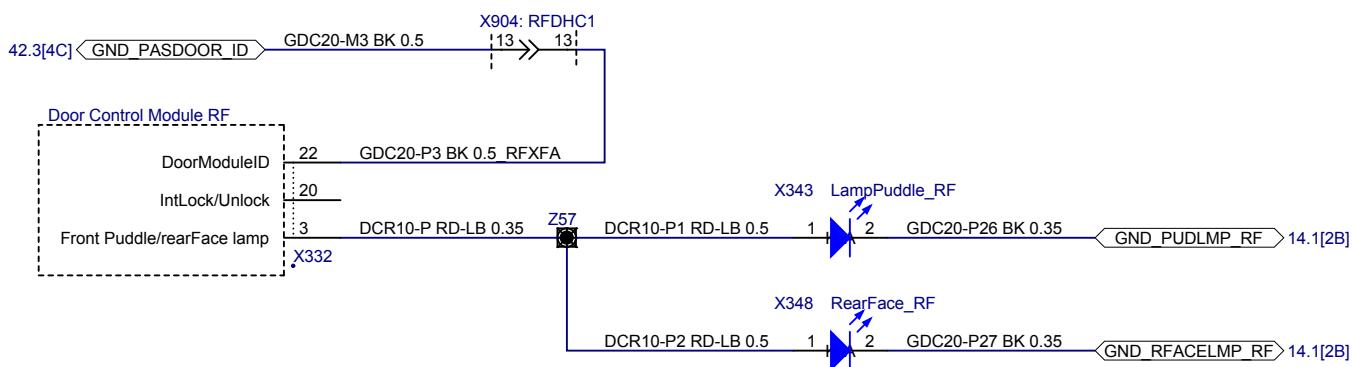
**SHEET NAME:** Right Front Door - Handle and Latch

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

**DO NOT SCALE**

SHEET 14.1





X332-22 is grounded in LHD to indicate passenger door.

TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

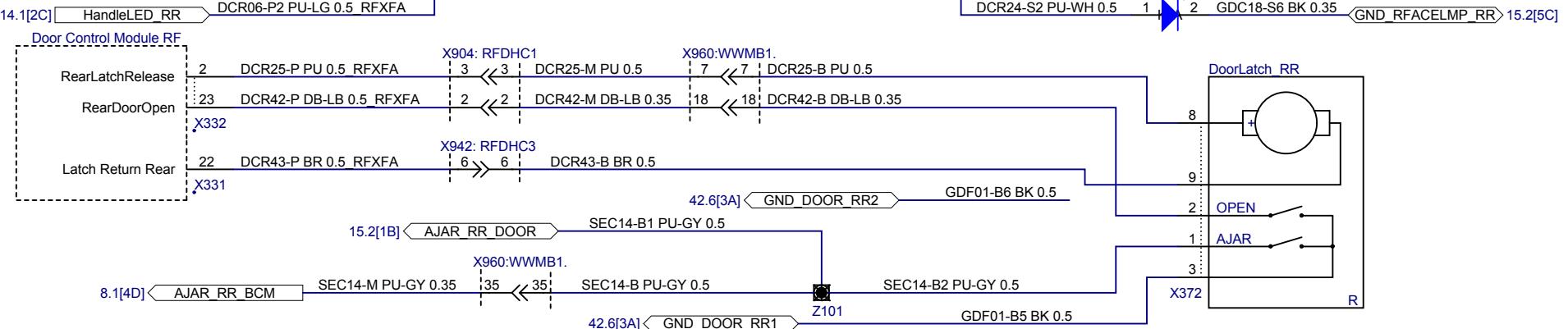
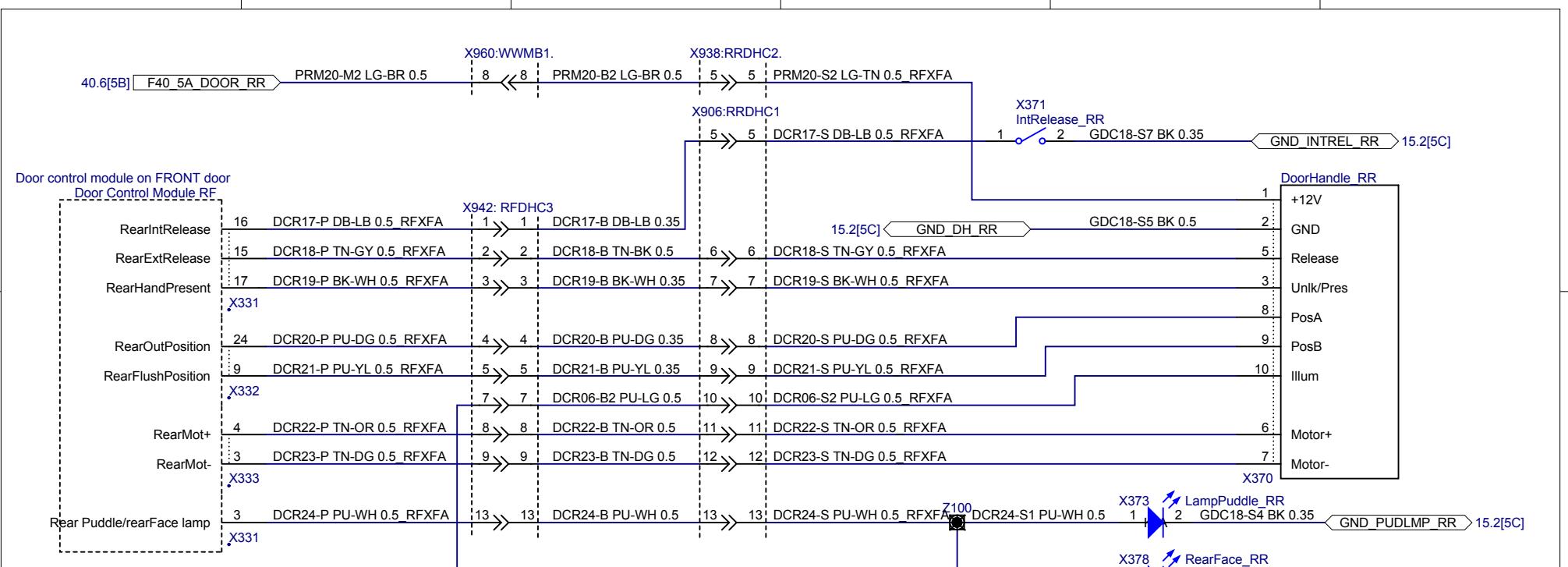
SHEET NAME: Right Front Door - Exterior Illumination

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 14.3

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.



**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Right Rear Door - Handle and Latch

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

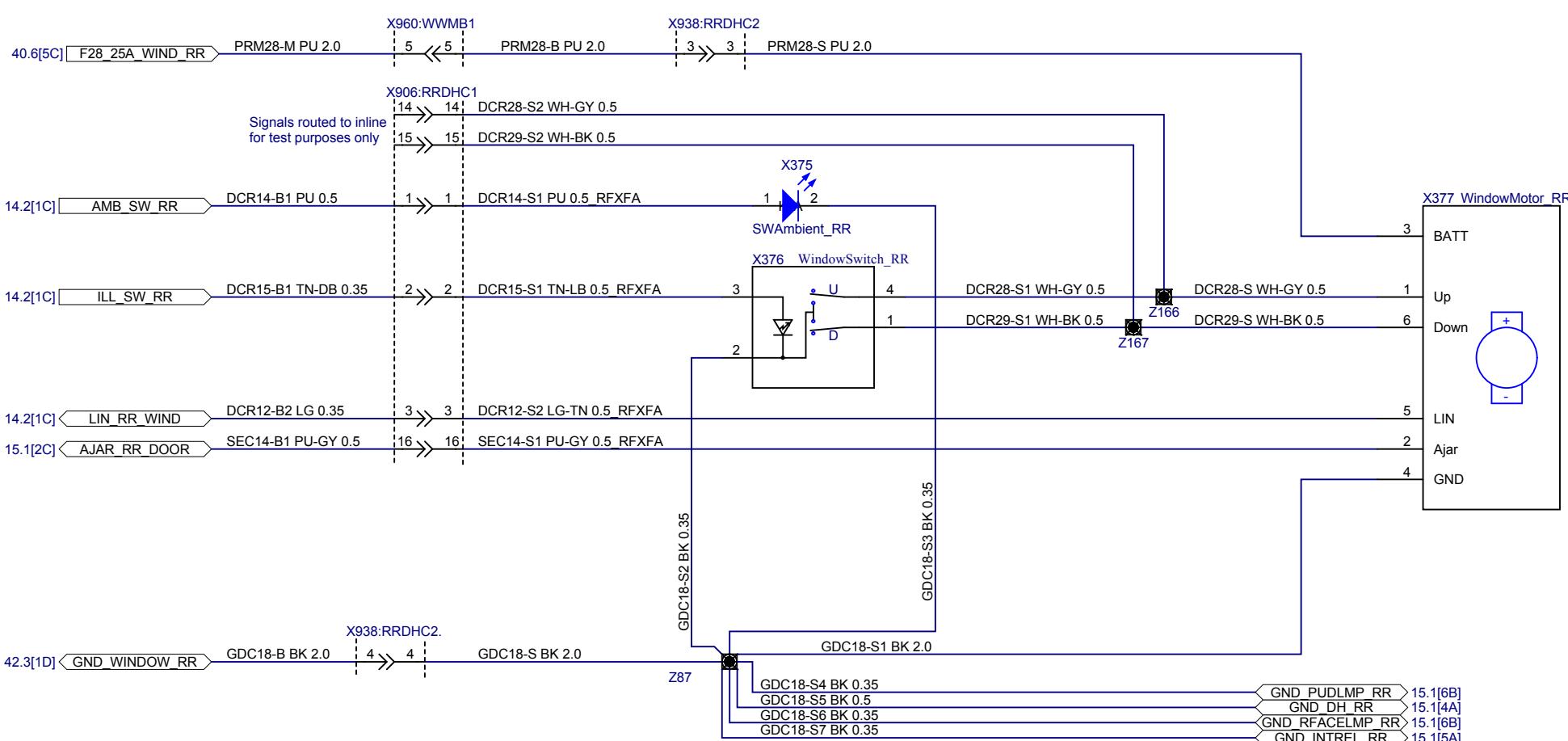
DO NOT SCALE

SHEET 15.1

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

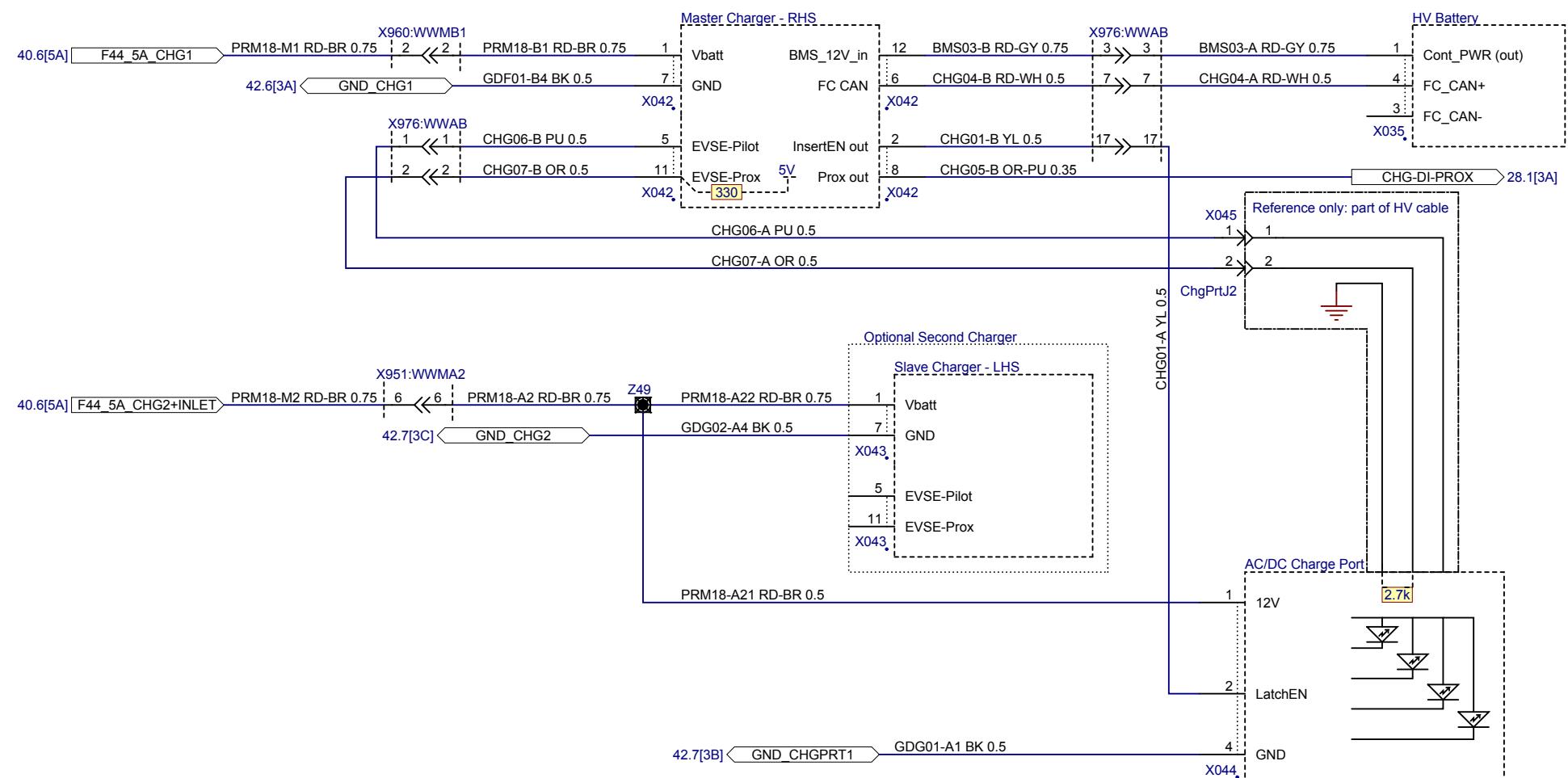
SHEET NAME: Right Rear Door - Power Window

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 15.2

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.



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PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

**SHEET NAME:** Energy System - Charger Logic Connections

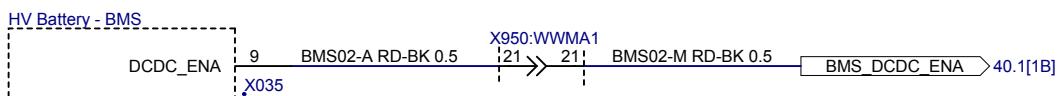
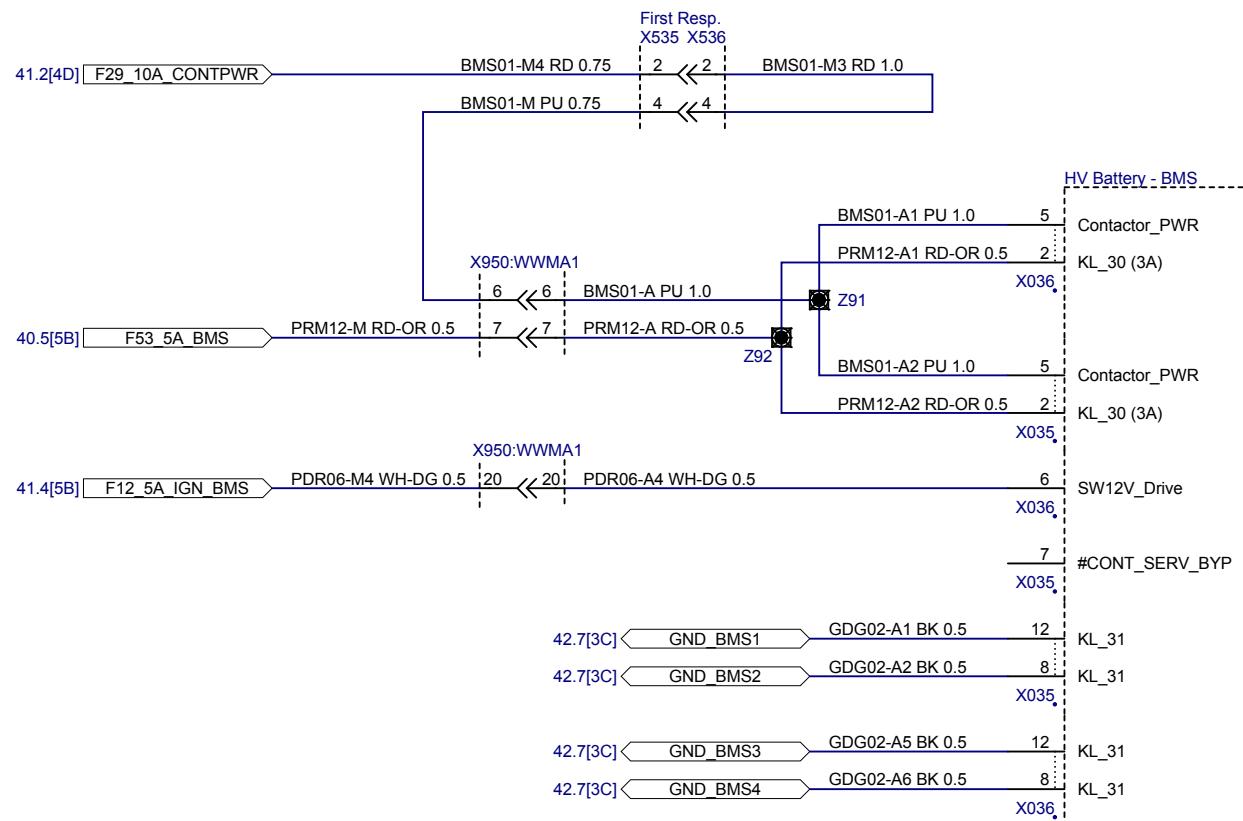
ITEM NO. REVISION: DATE:  
**1004573-00-D** **09 (final)** **8/13/2014**

DO NOT SCALE

SHEET 16.1

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## SHEET 16.1



TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: ESS + Charger Logic Connections

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 16.2

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

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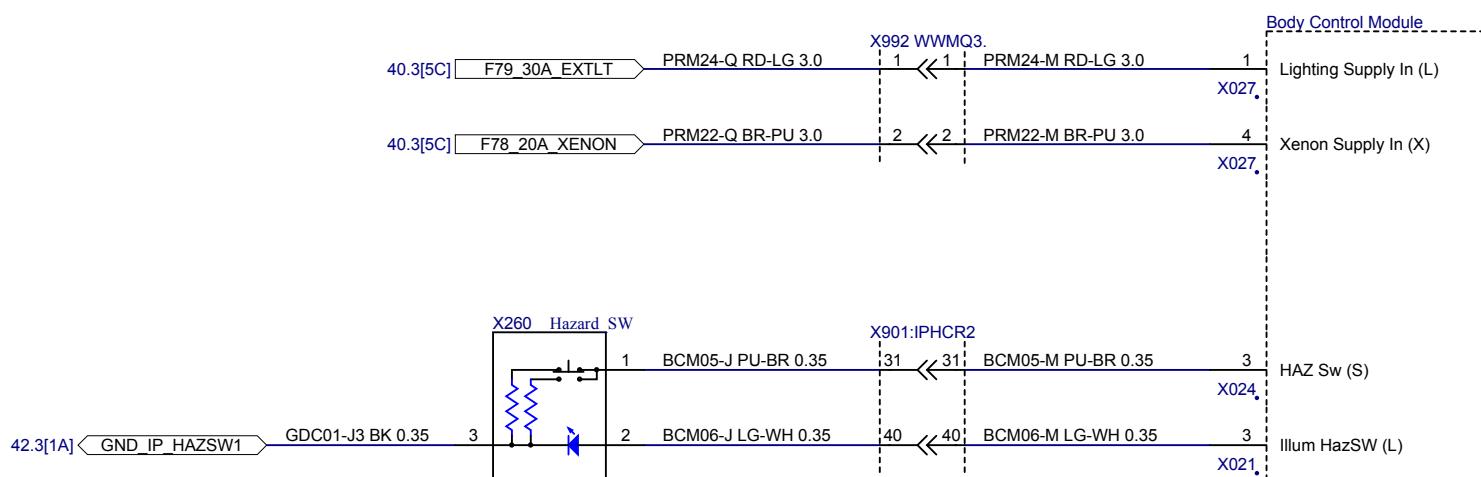
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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Exterior Illumination - Front - Inputs

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

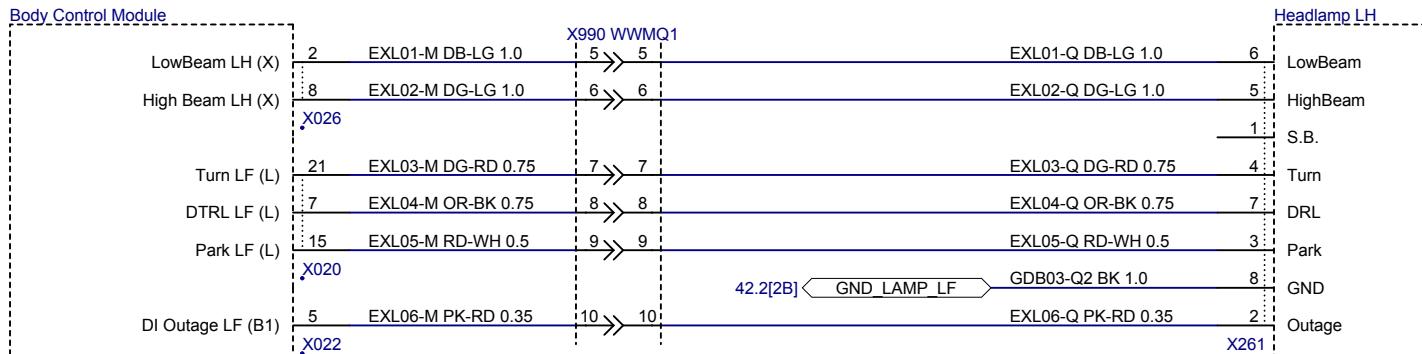
DO NOT SCALE

SHEET 17.1

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

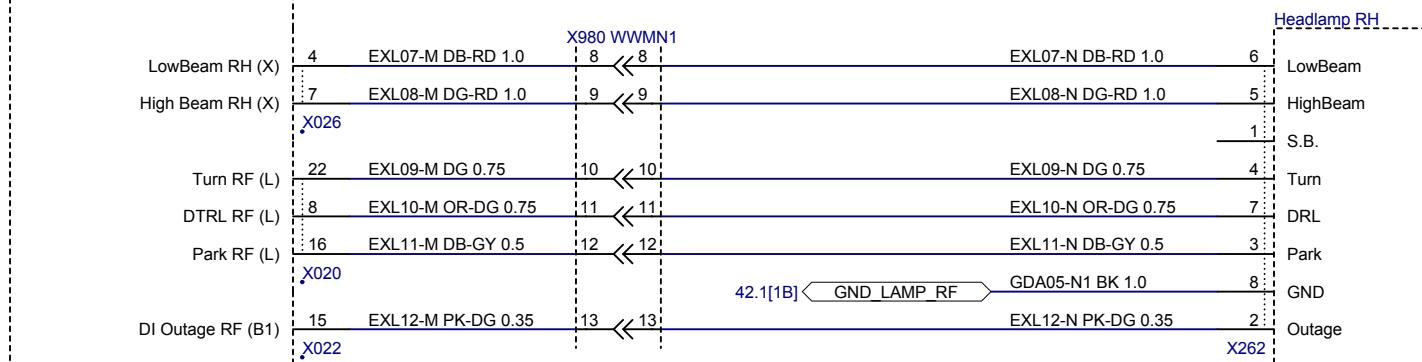
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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Exterior Illumination - Headlamps

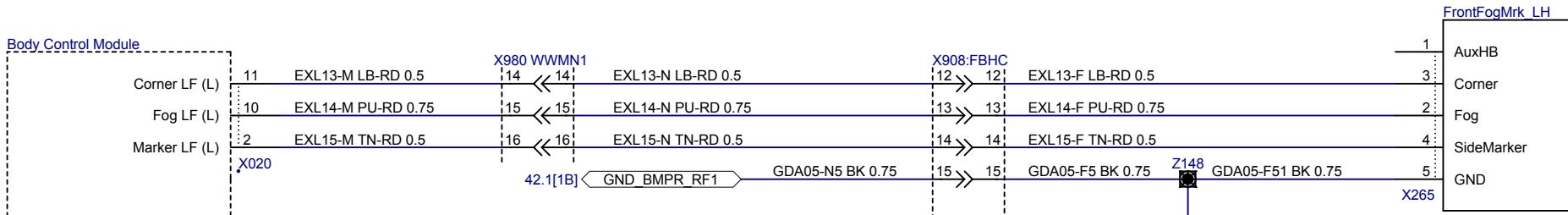
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

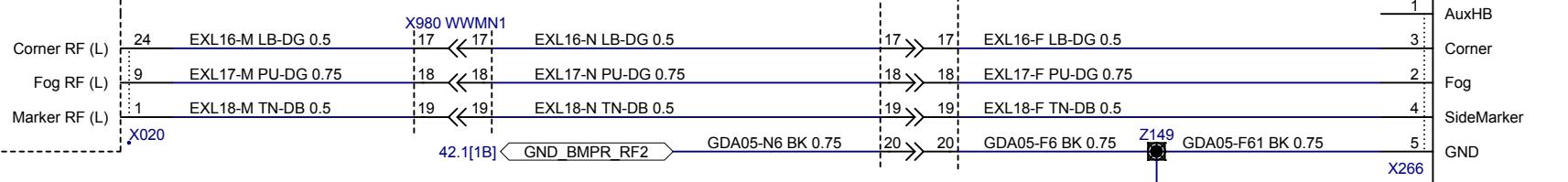
SHEET 17.2

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

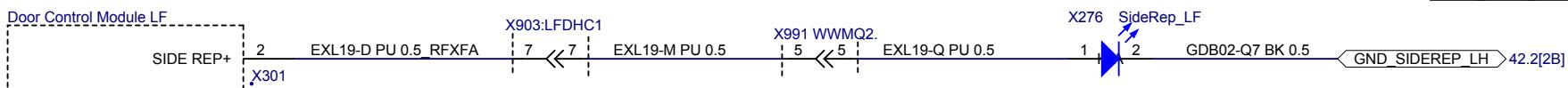
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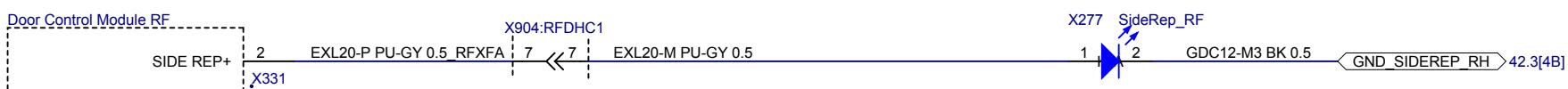
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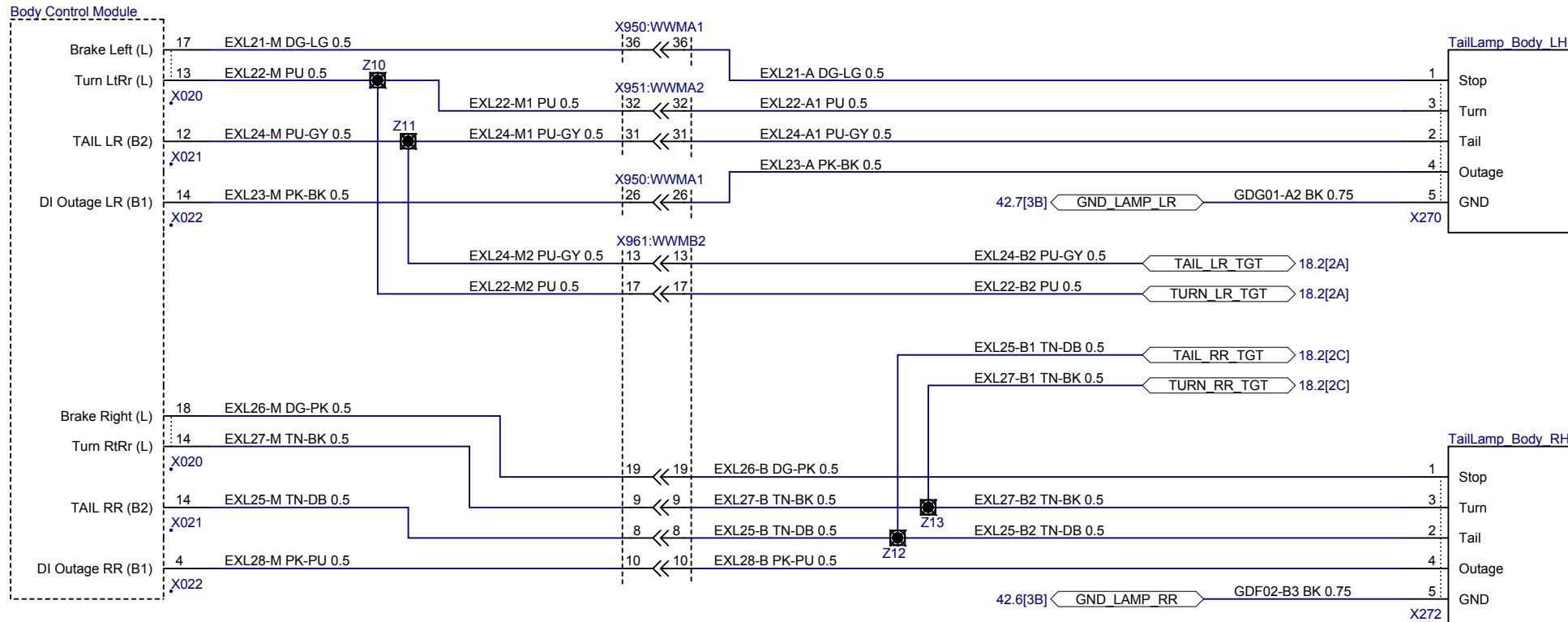
**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)  
 SHEET NAME: Exterior Illumination - Front Facia, Side Repeaters  
 ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014  
 DO NOT SCALE SHEET 17.3

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

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PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

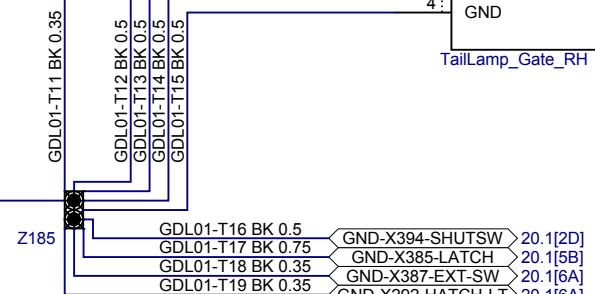
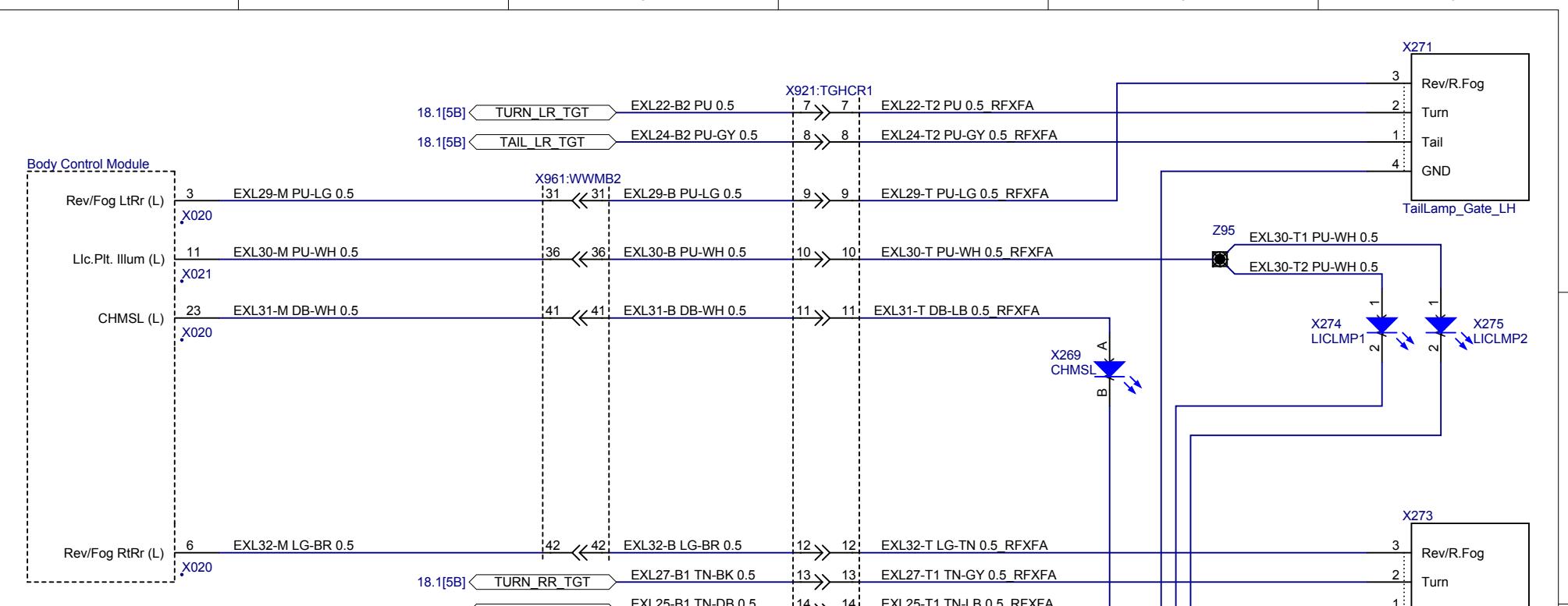
SHEET NAME: Exterior Illumination - Rear - Body Side

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 18.1

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.



**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

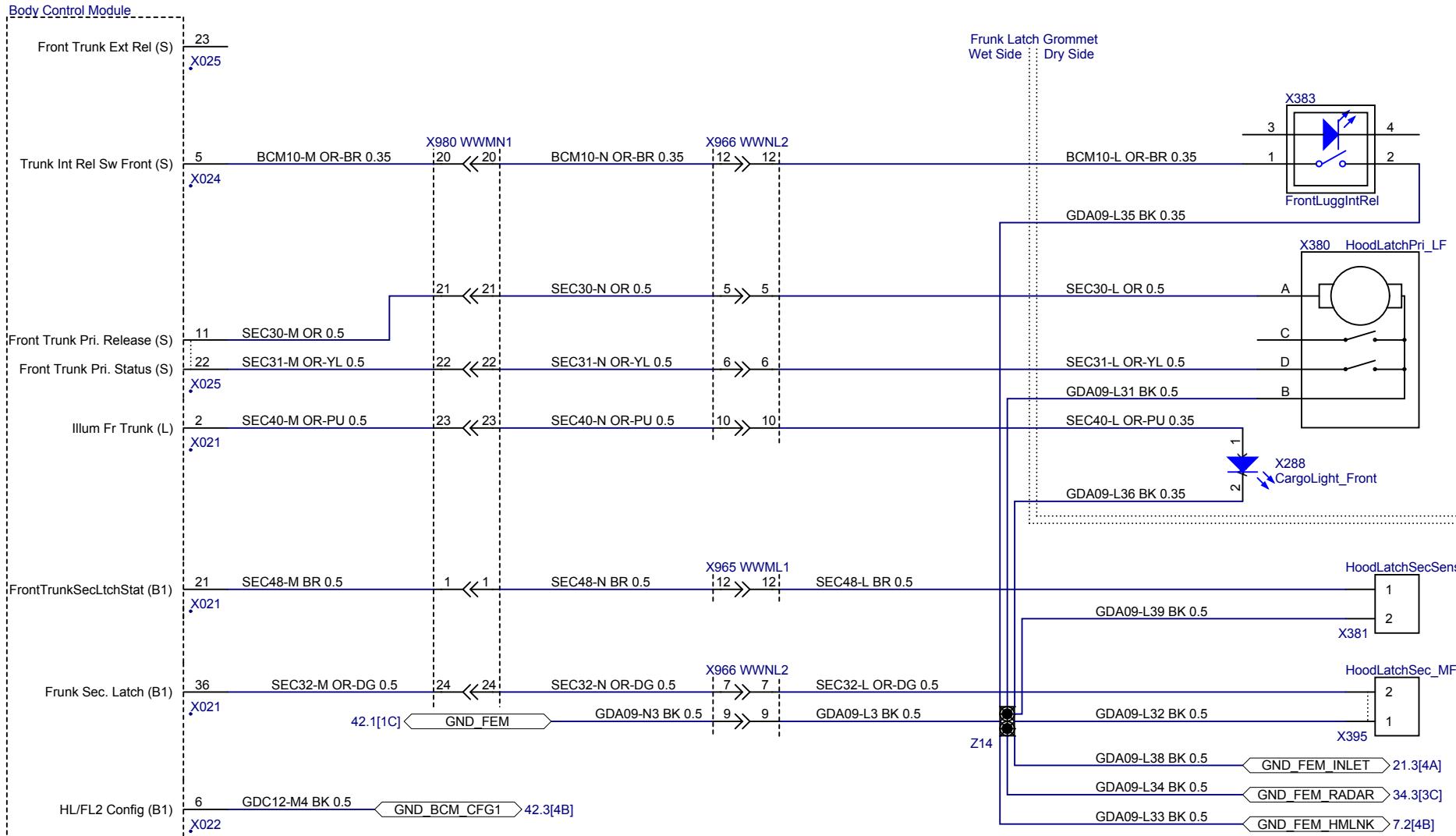
SHEET NAME: Exterior Illumination - Rear - Tailgate

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 18.2

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.



# TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

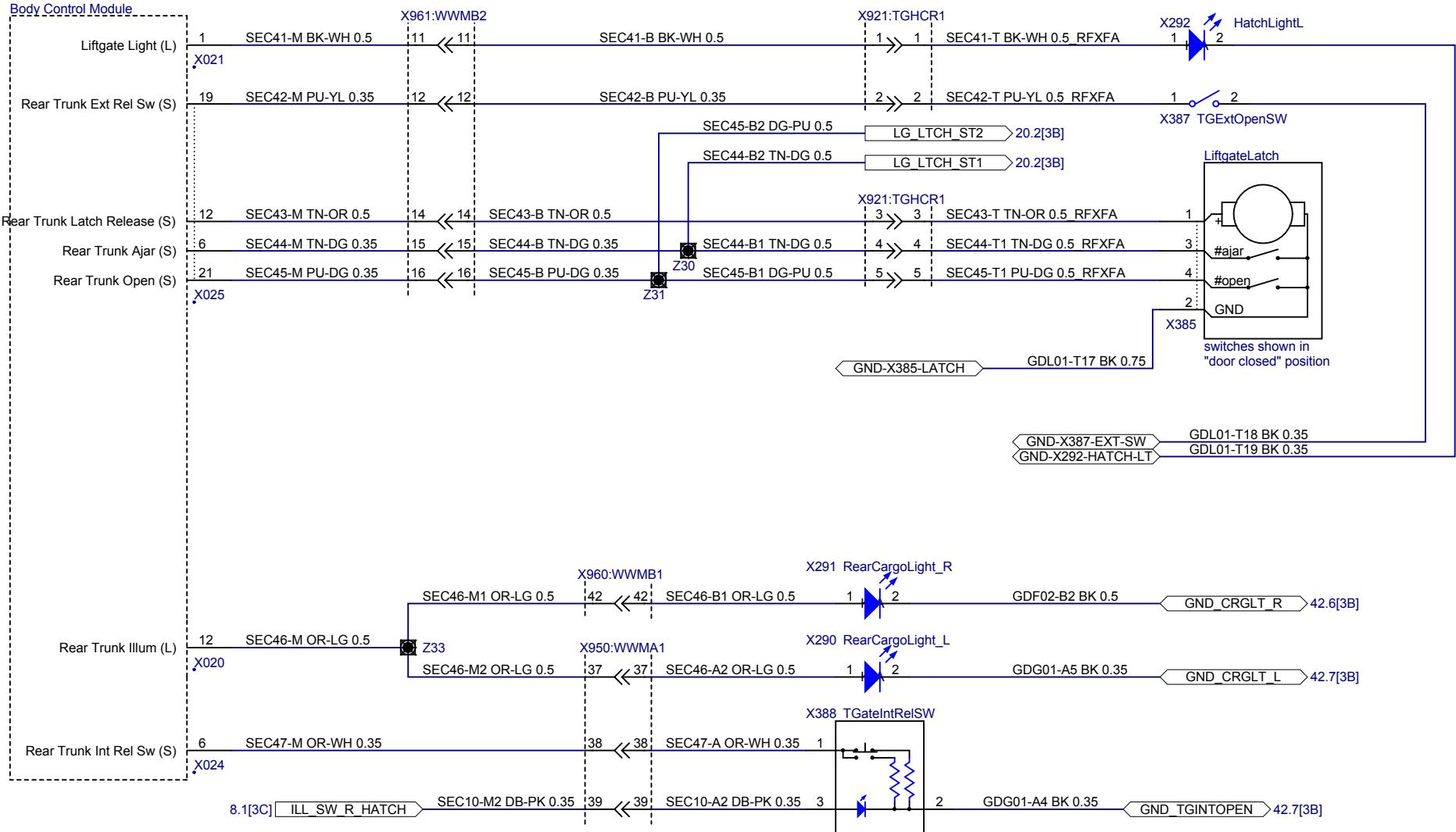
SHEET NAME: Front Hatch Acuator/Sensors

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 19.1

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.



**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

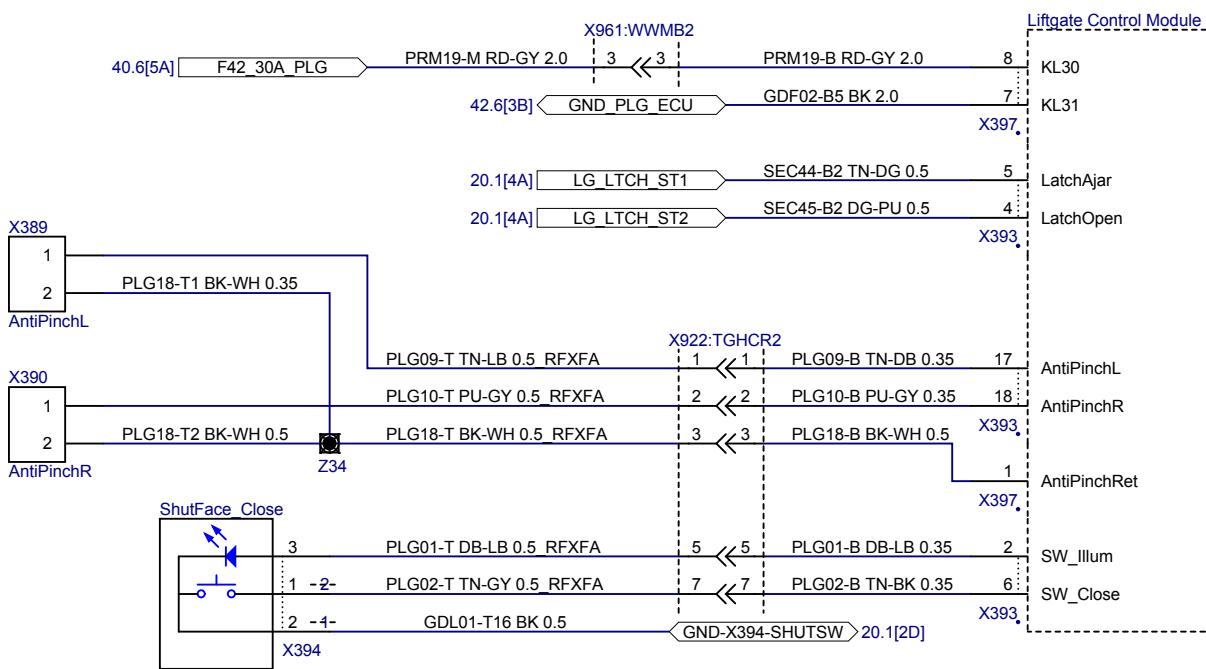
DO NOT SCALE

SHEET 20.1

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**TESLA**

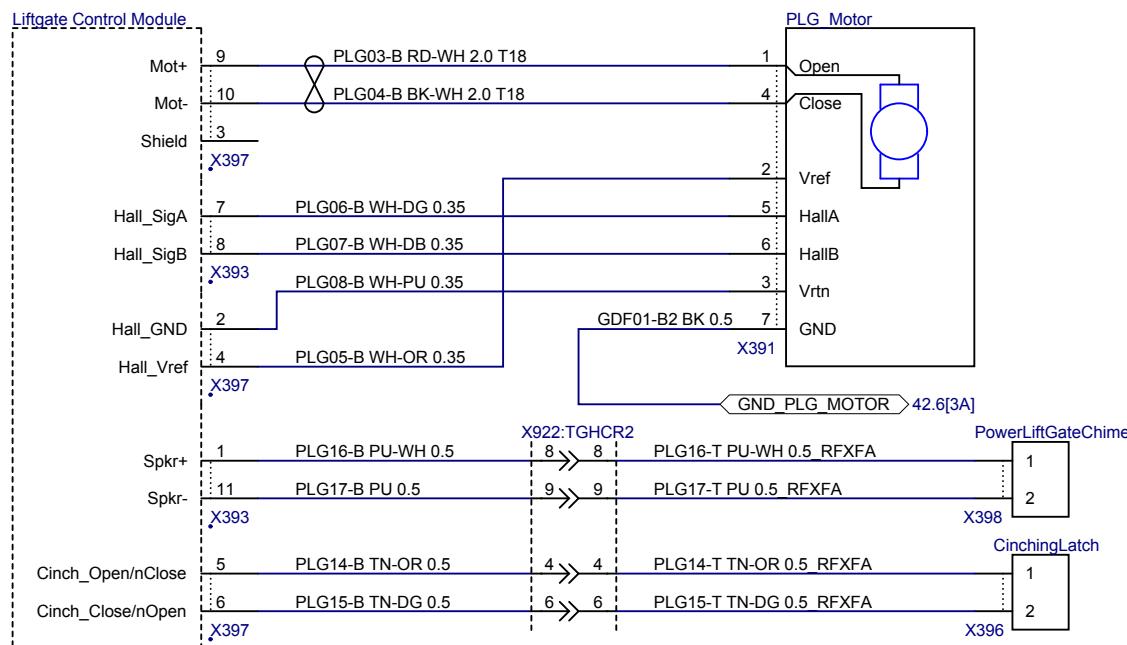
PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Power LiftGate Option 1/2

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 20.2



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PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

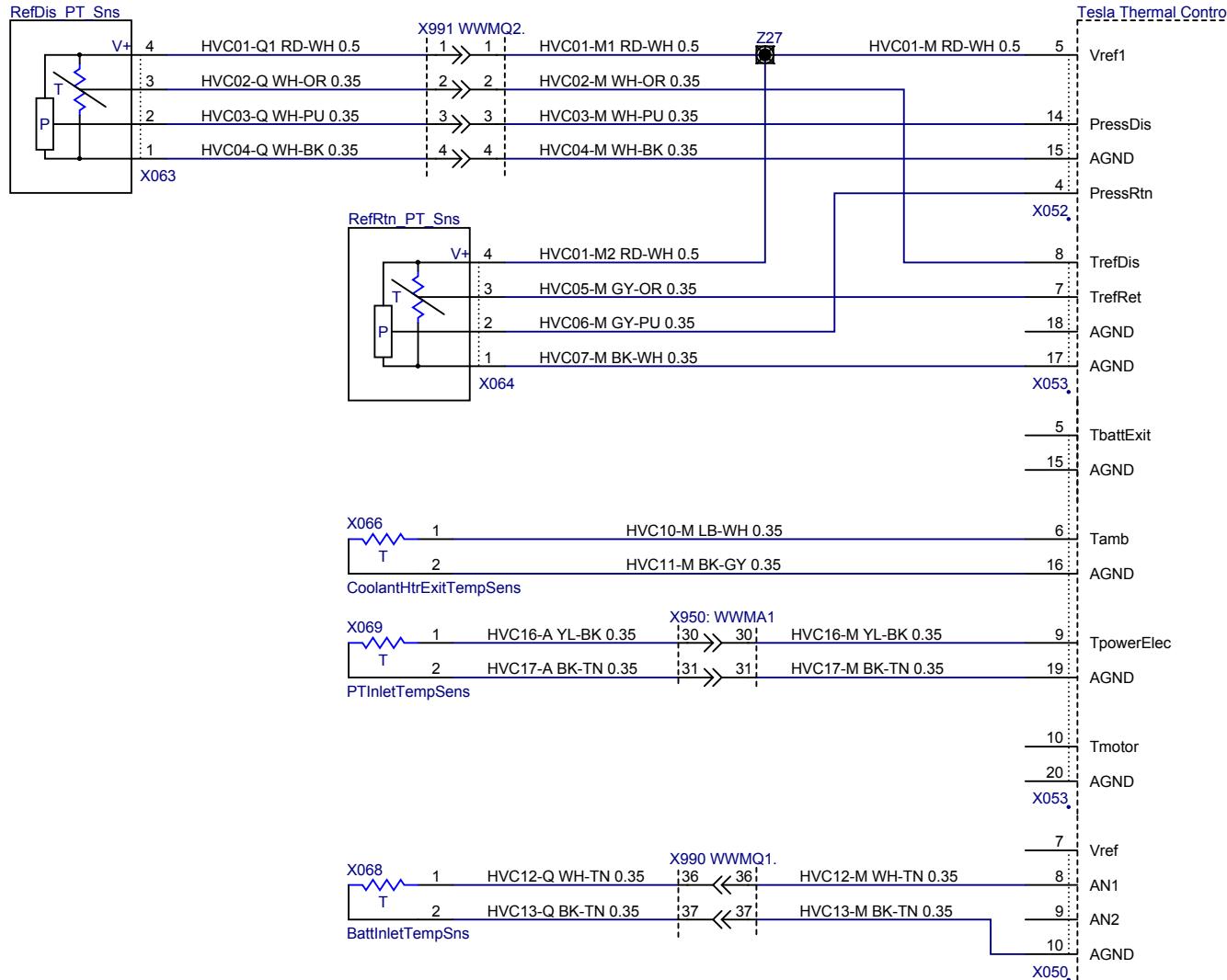
SHEET NAME: Power LiftGate Option 2/2

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 20.3

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# TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: HVAC - Temp/Press Sensors

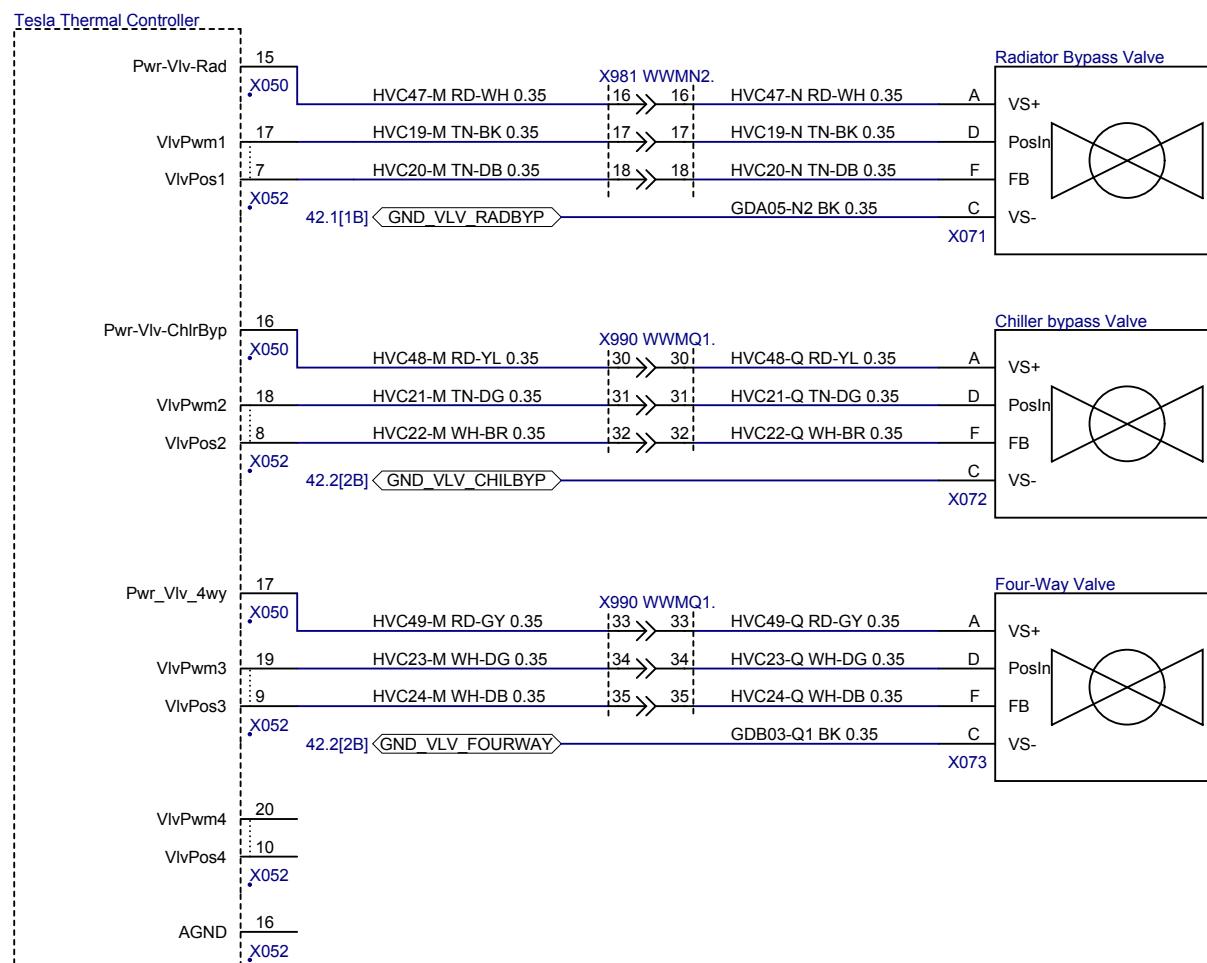
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 21.1

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

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**TESLA**

PROJECT NAME: **Model S Wiring Diagram: LHD** PHASE: **SOP(2012)**

SHEET NAME: **HVAC - Valves**

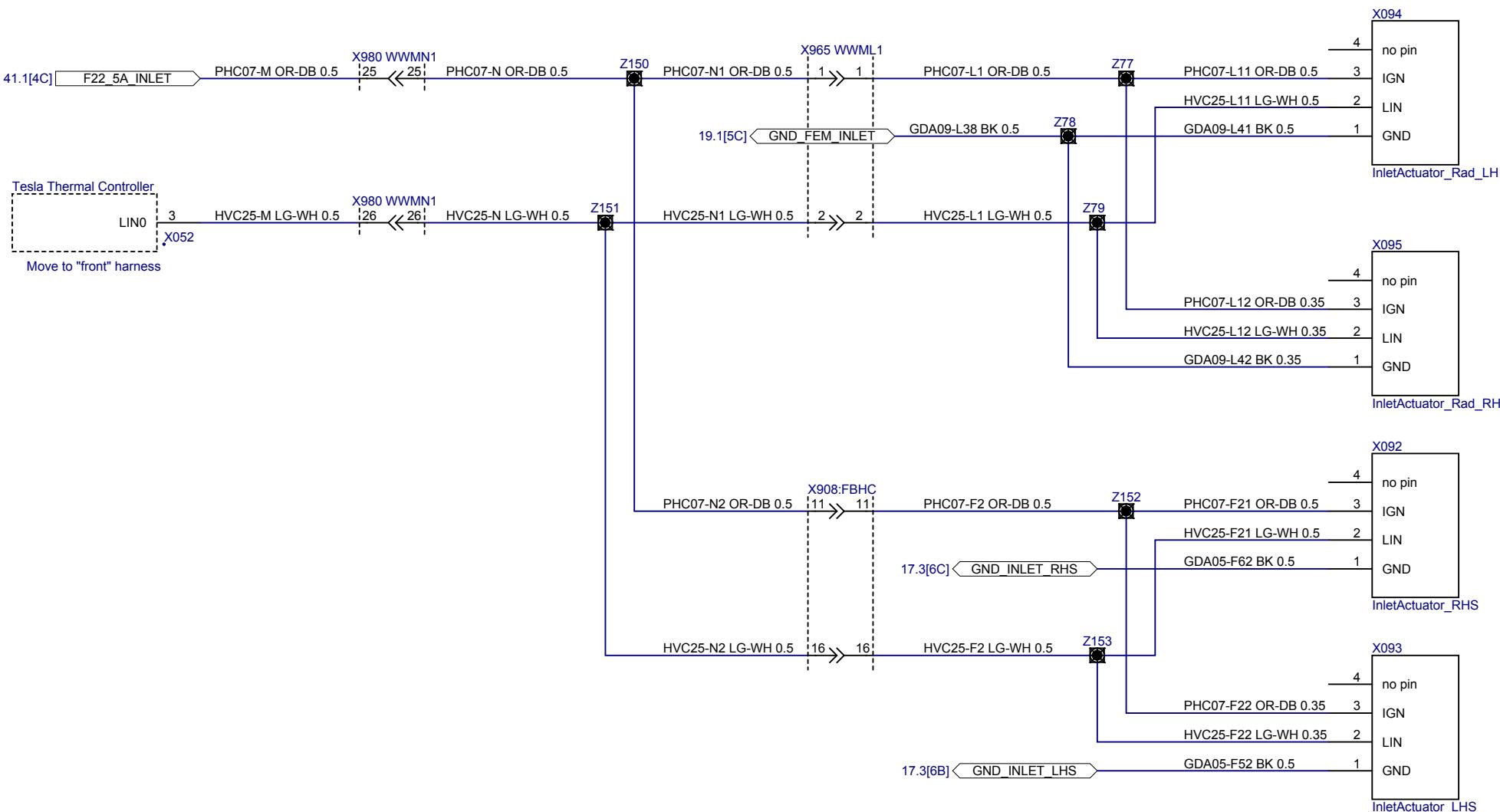
ITEM NO. **1004573-00-D** REVISION: **09 (final)** DATE: **5/13/2014**

DO NOT SCALE

SHEET **21.2**

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PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

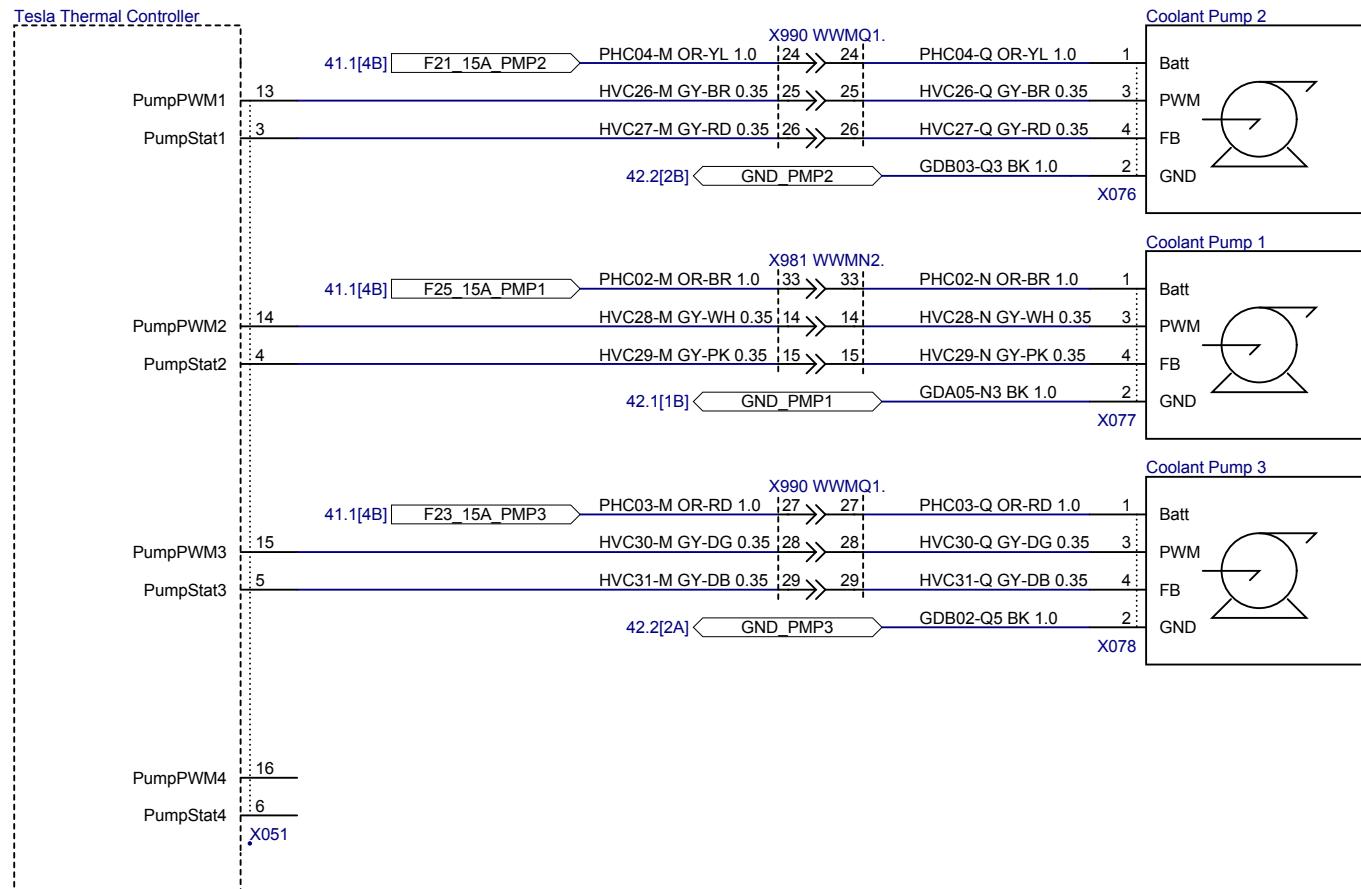
SHEET NAME: HVAC - Inlet Louvres

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 21.3

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**TESLA**

PROJECT NAME: **Model S Wiring Diagram: LHD** PHASE: **SOP(2012)**

SHEET NAME: **HVAC - Pumps**

ITEM NO. **1004573-00-D** REVISION: **09 (final)** DATE: **5/13/2014**

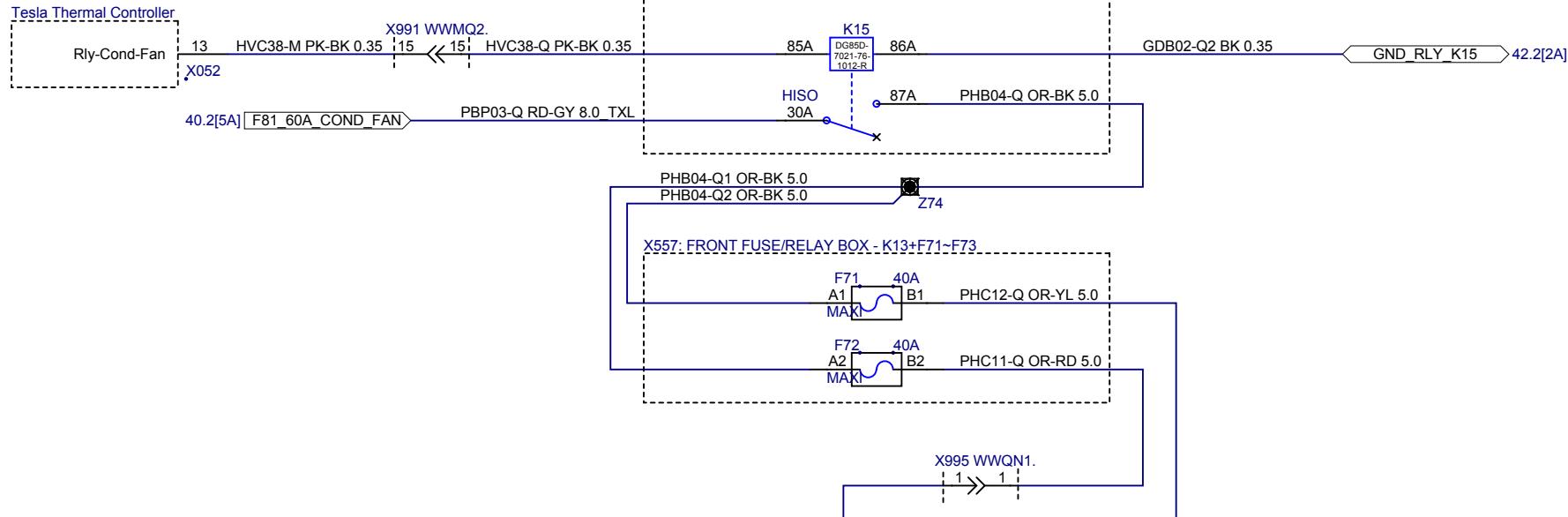
DO NOT SCALE

SHEET **22.1**

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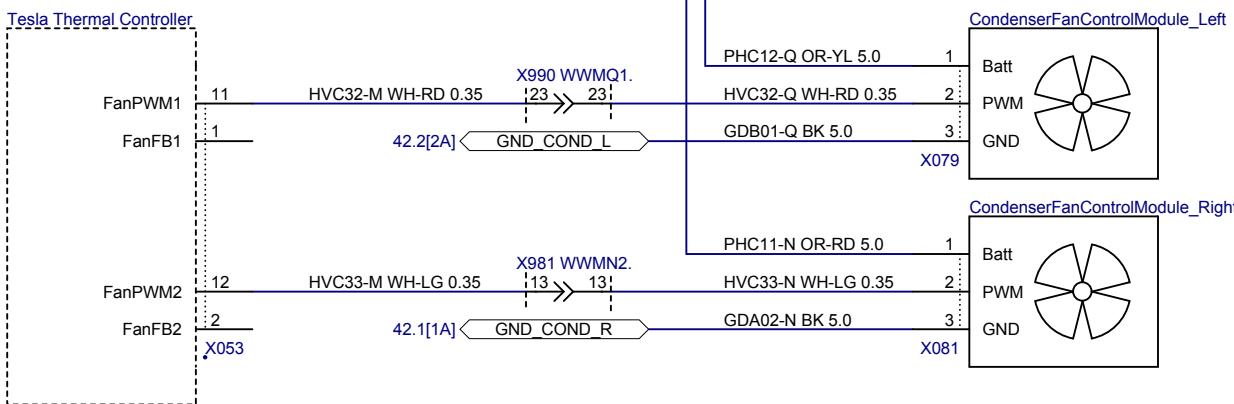
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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: HVAC - Condenser Fans

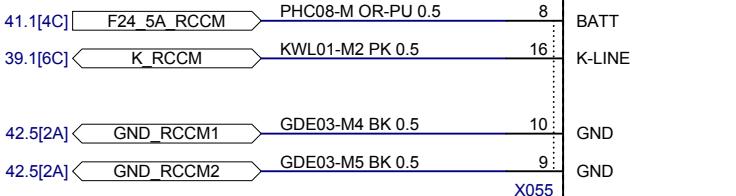
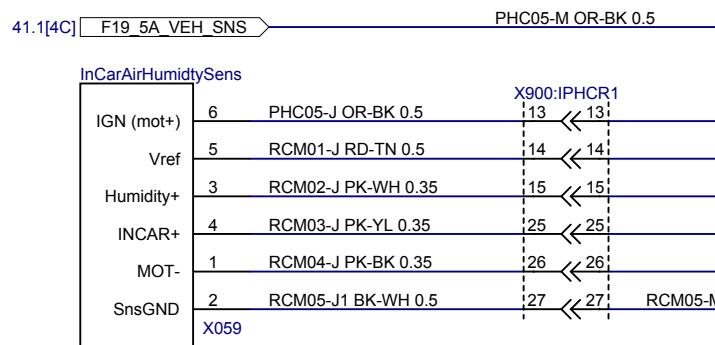
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

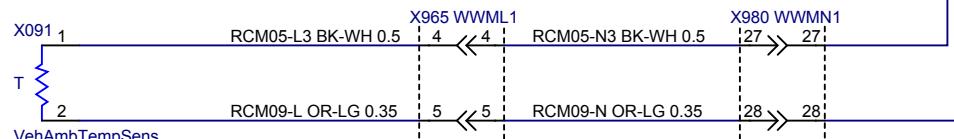
SHEET 22.2

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

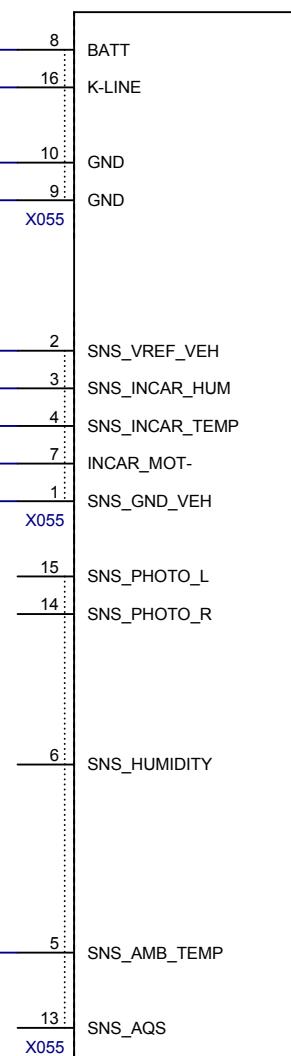
A



B



RCM05-M3 BK-WH 0.5



TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

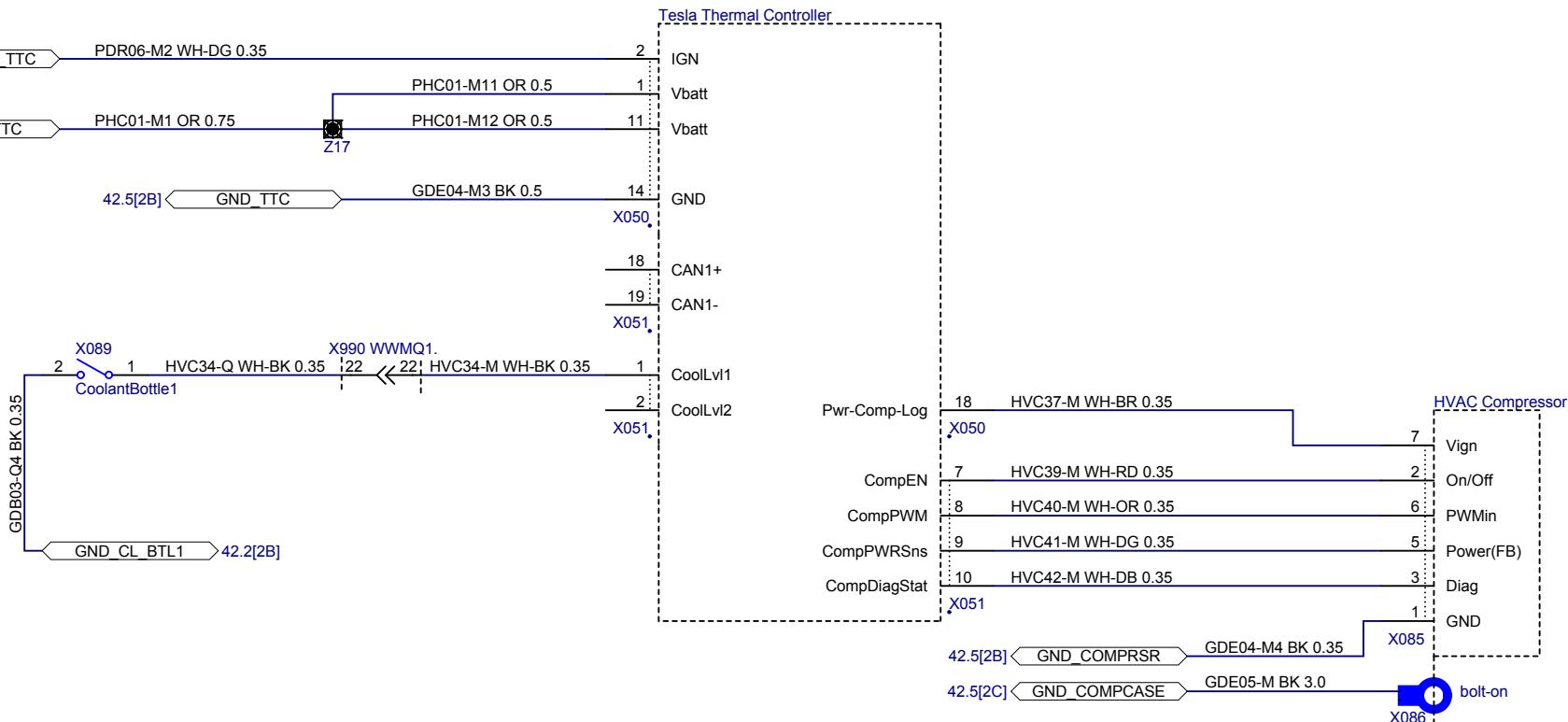
SHEET NAME: HVAC - Cabin Air Handler, etc.

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 22.3

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

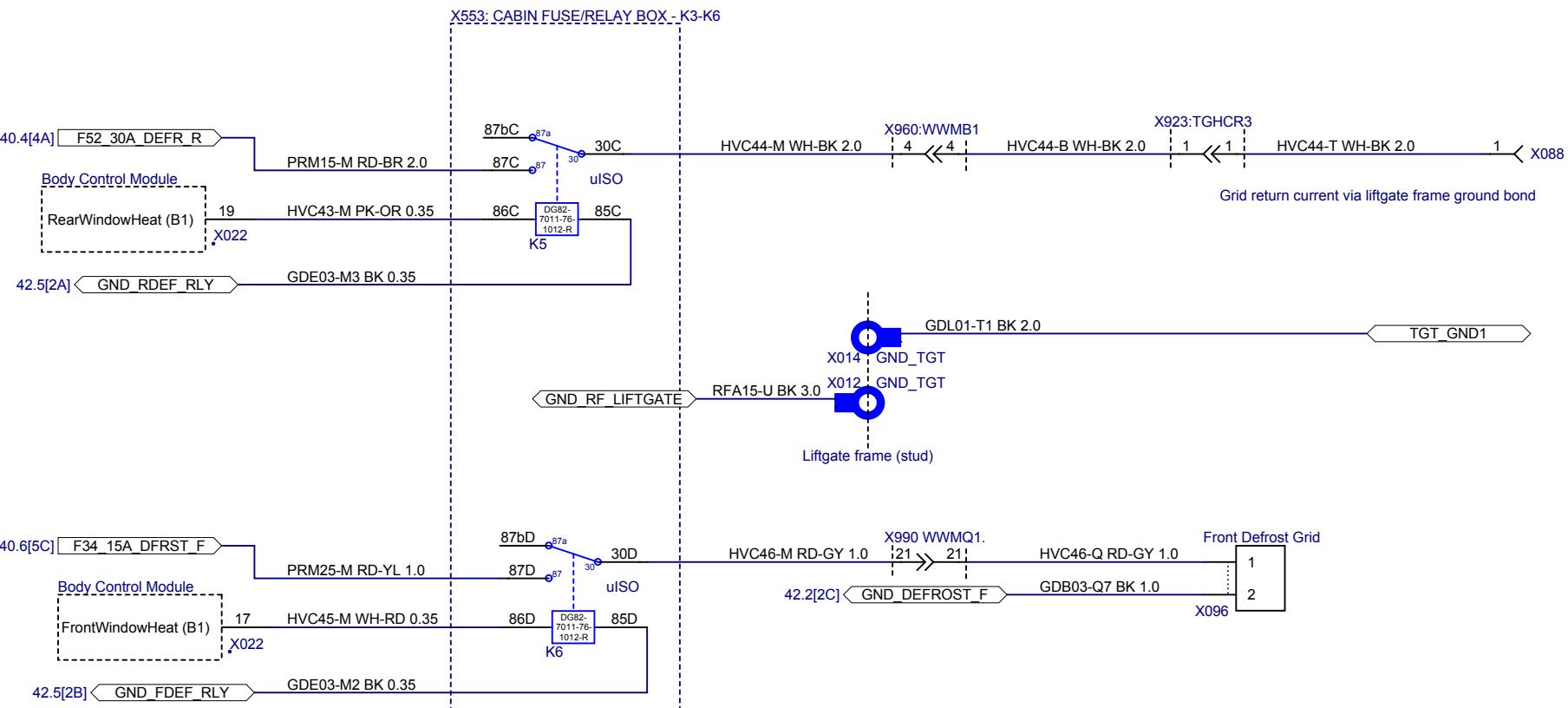


THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

PROJECT NAME:	PHASE:	
Model S Wiring Diagram: LHD		
SHEET NAME:	SOP(2012)	
HVAC - ECU Power, Compressor Interface		
ITEM NO.	REVISION:	DATE:
1004573-00-D	09 (final)	5/13/2014
DO NOT SCALE		SHEET 23 1

A

A



T E S L A

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: HVAC - Window Defrost Grids

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 23.2

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A

A

B

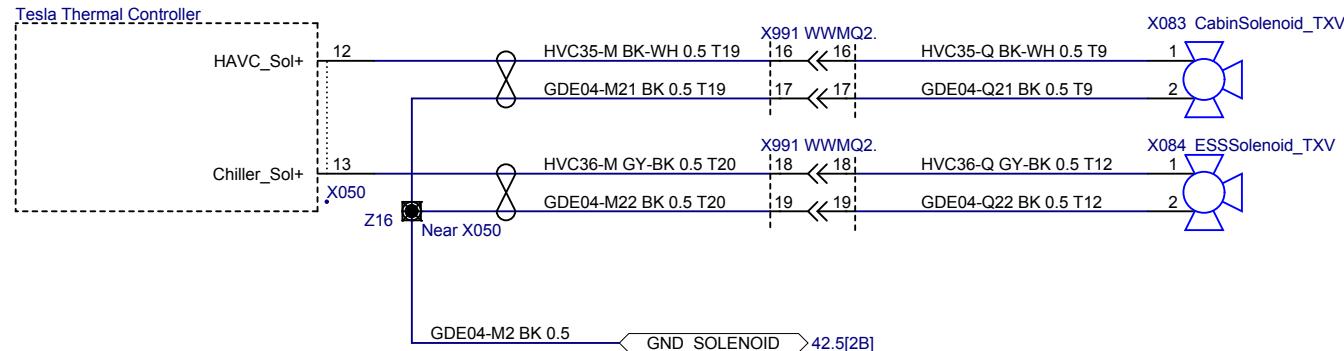
B

C

C

D

D



# TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: HVAC - Solenoids

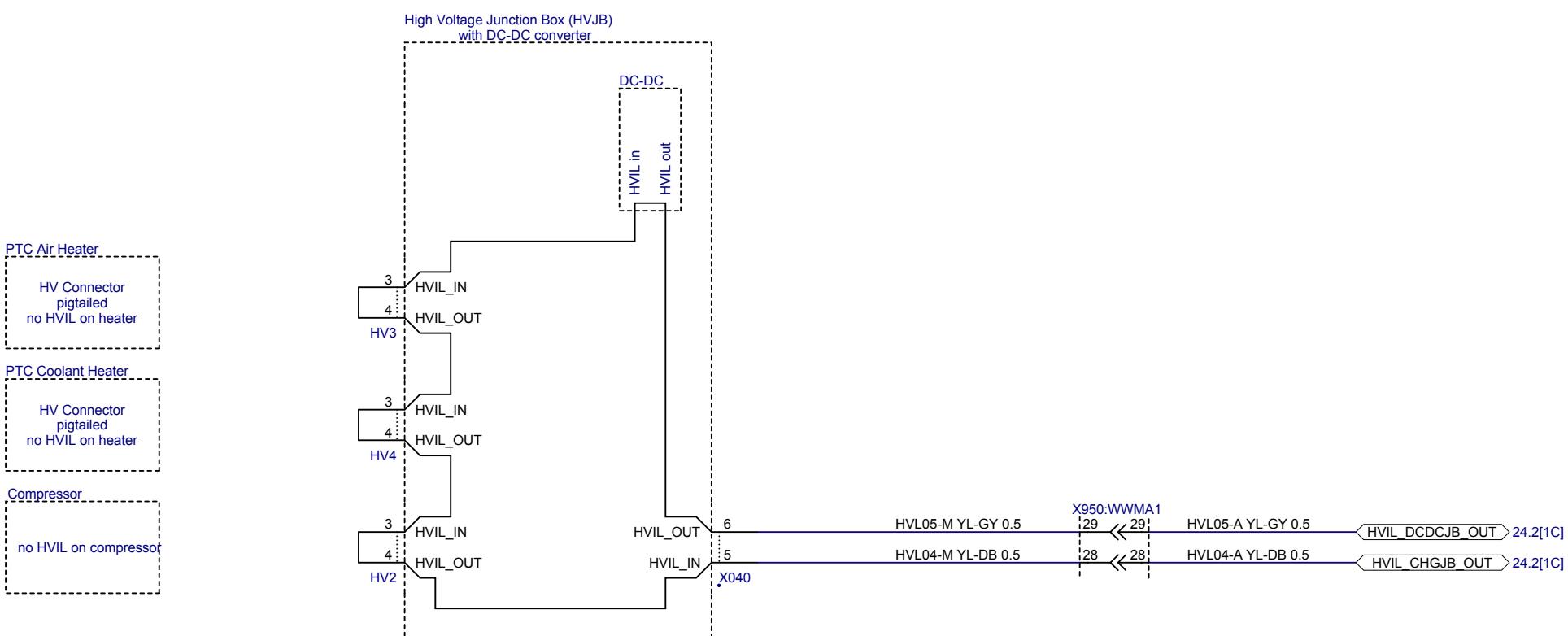
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 23.3

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

A



A

B

C

D

# TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: High Voltage Interlock Connections 1 of 2 (Front)

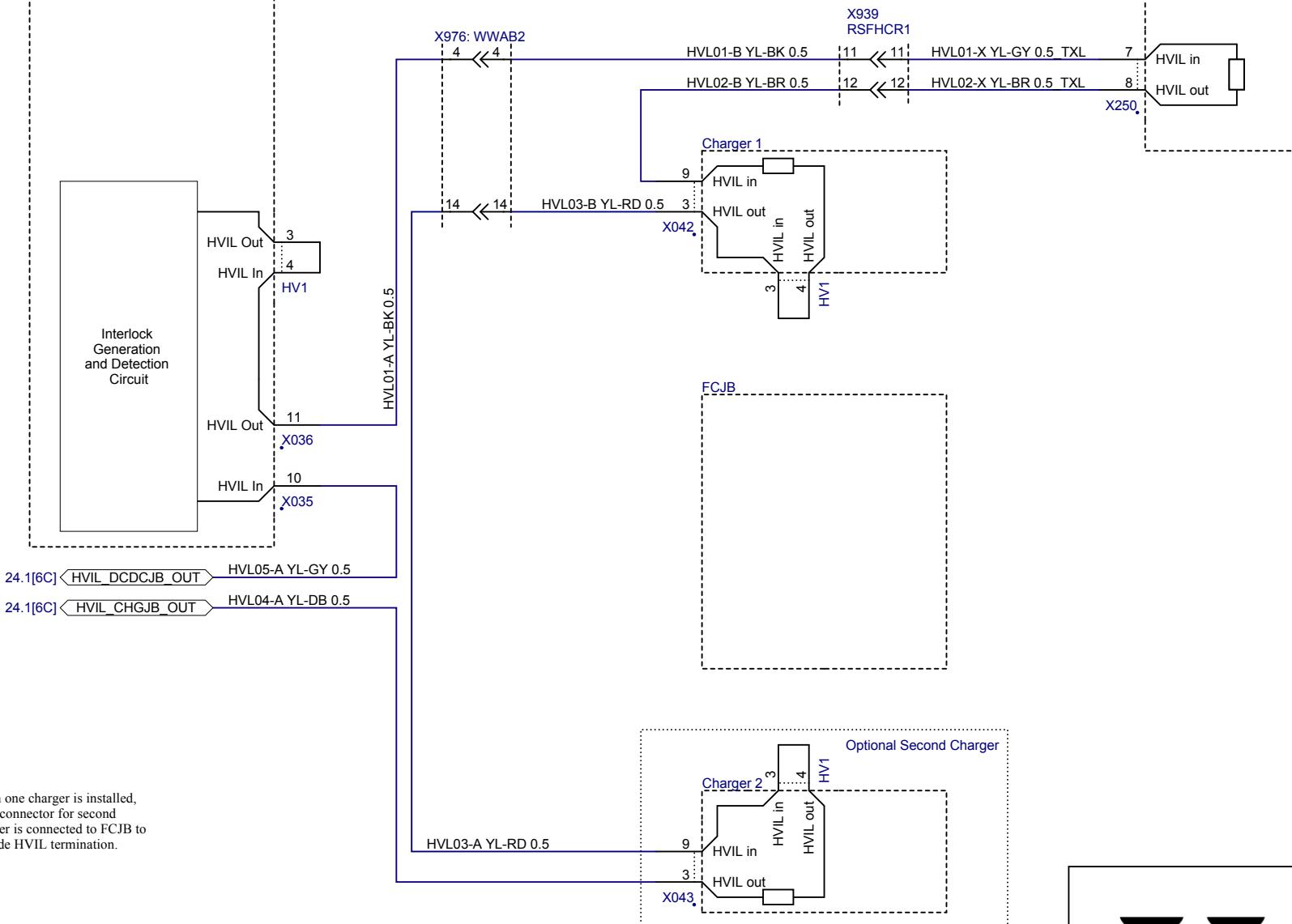
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 24.1

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

HV Battery (ESS)



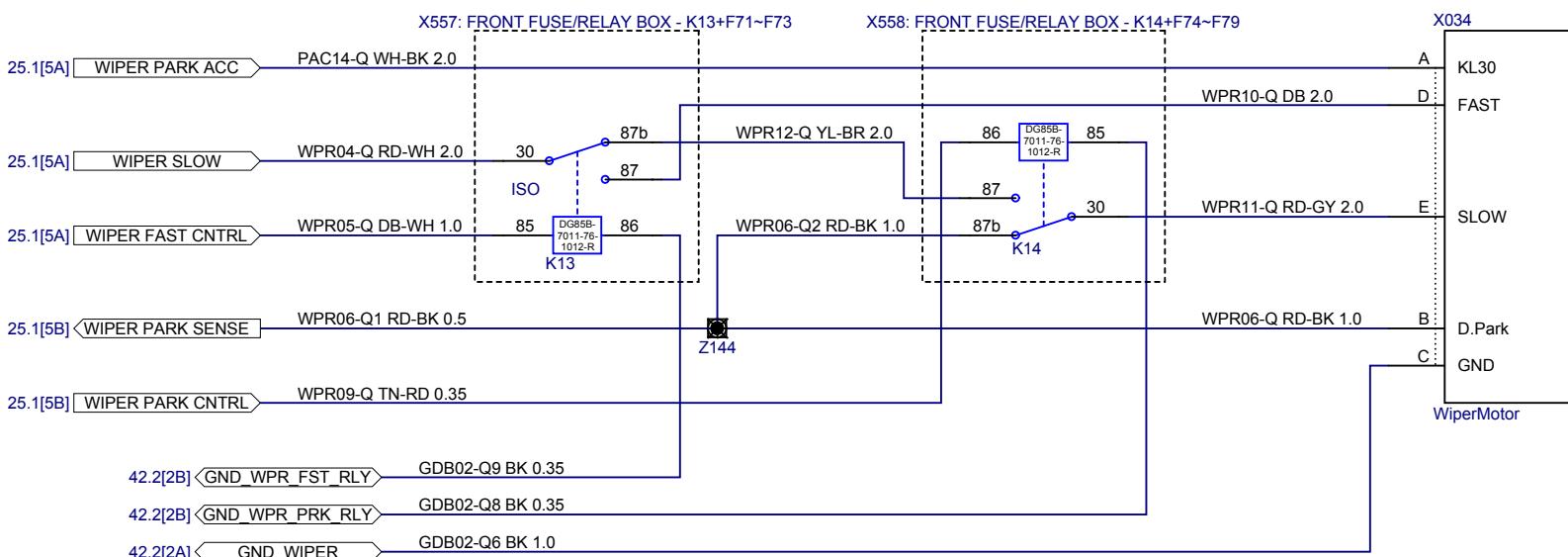
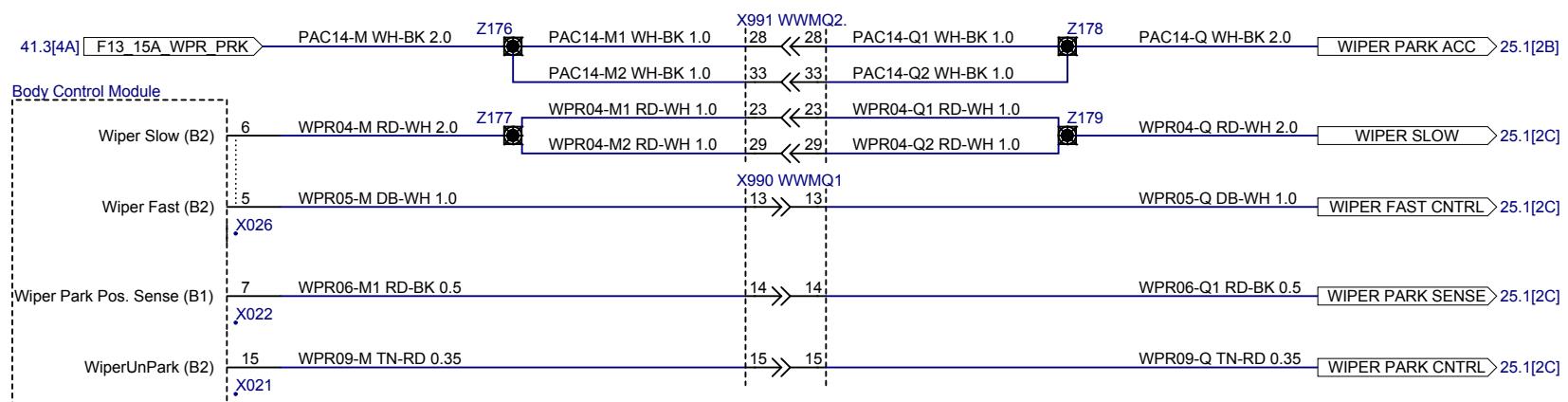
PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 24.2

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PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

**SHEET NAME:** Windscreen Wiper Rain Sensor

PHASE:  
**SOP(2012)**

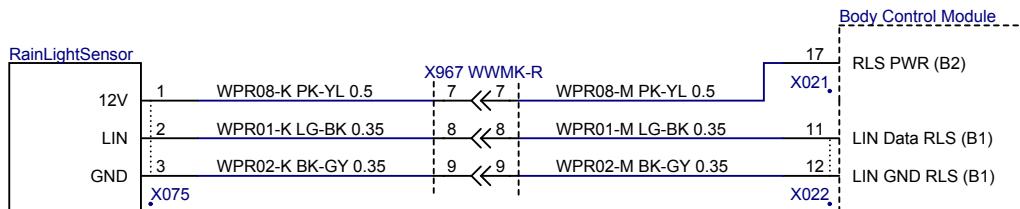
ITEM NO. REVISION: DATE:  
1004573-00-D 09 (final) 5/13/2014

DO NOT SCALE

DO NOT SCALE

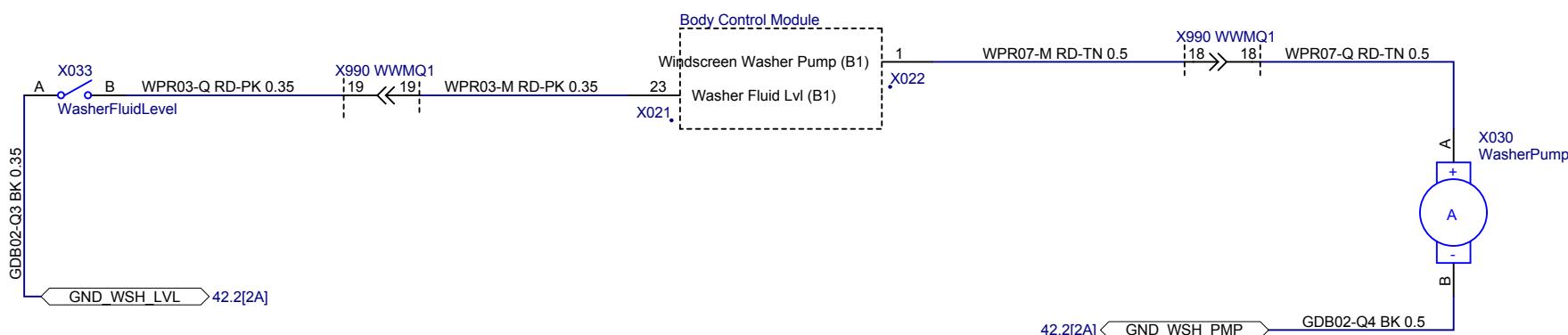
THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

A



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B



B

C

**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Rain Sensor / Windscreen Washer

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 25.2

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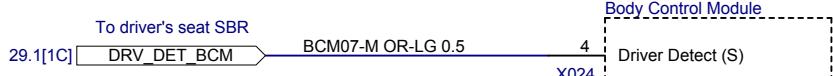
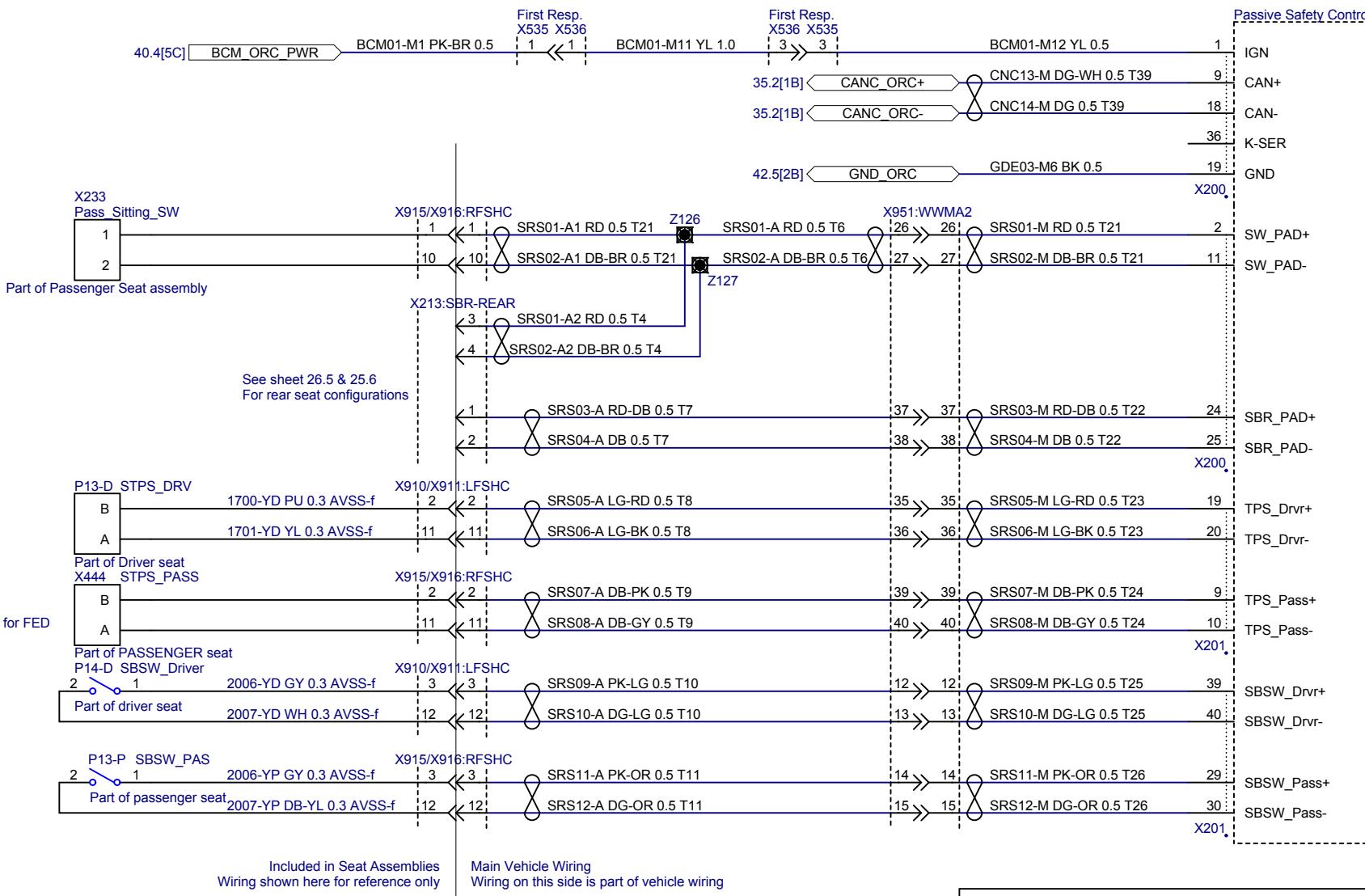
A

B

Note for Passenger seat:  
No Track Position Sensor for FED

C

D



**TESLA**

PROJECT NAME: **Model D Wiring Diagram: LHD** PHASE: **SOP(2012)**

SHEET NAME: **Safety - Passive Safety Restraints Control 1/6**

ITEM NO. **1004573-00-D** REVISION: **09 (final)** DATE: **5/13/2014**

DO NOT SCALE

SHEET 26.1

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A

A

B

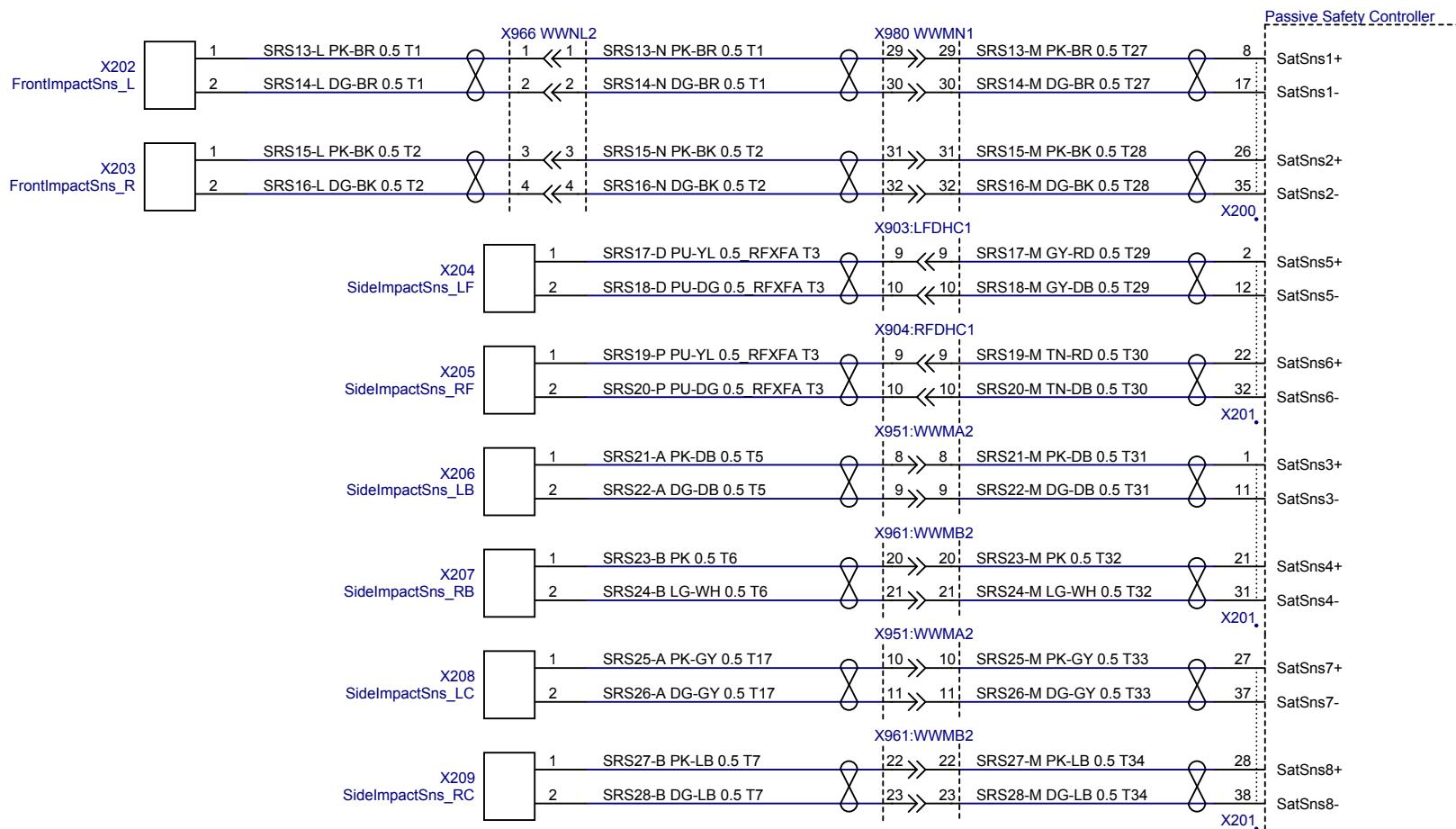
B

C

C

D

D



# TESLA

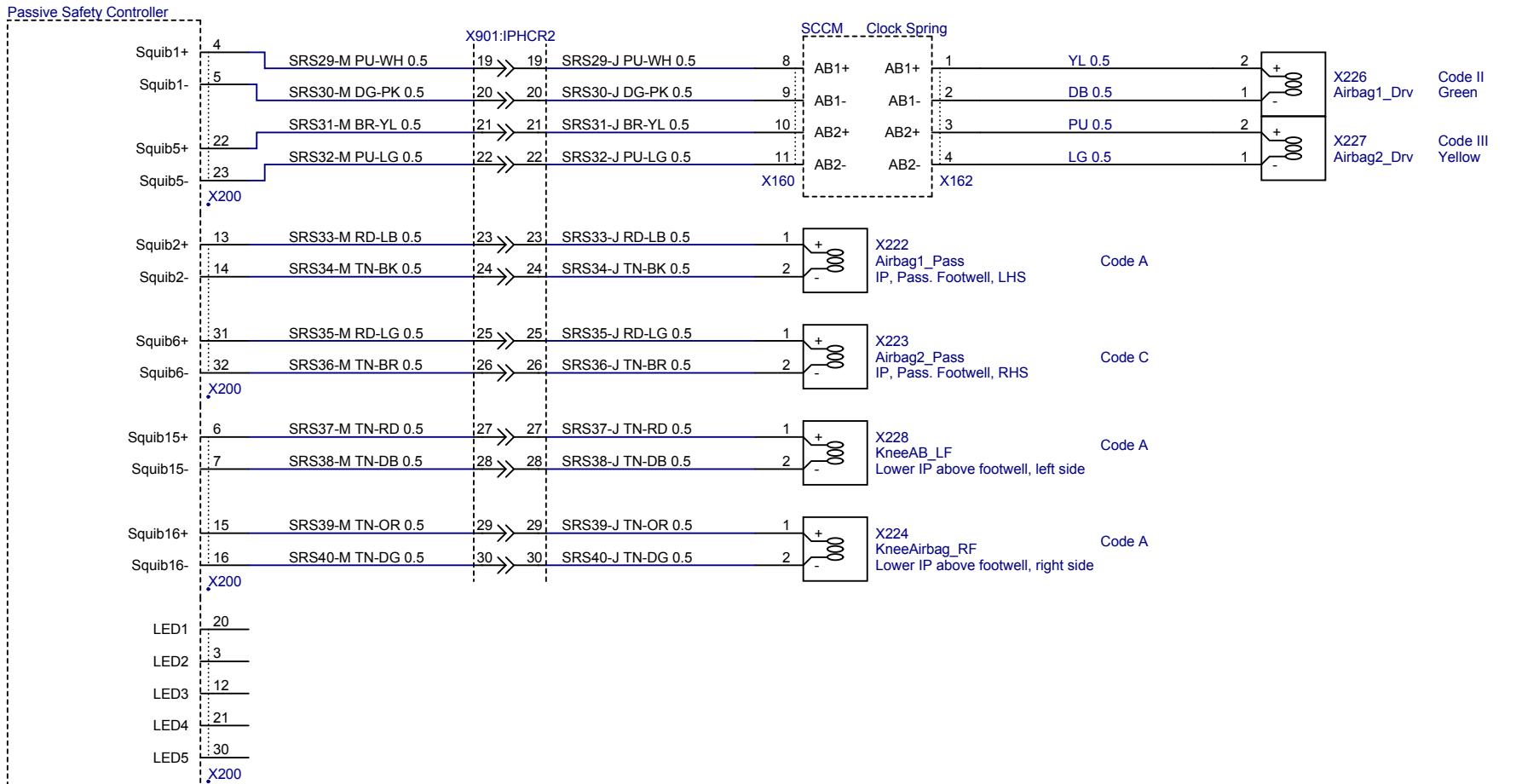
PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 26.2

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Circuits SRS29-SRS58 gold plate @ inline connectors

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

**TESLA**

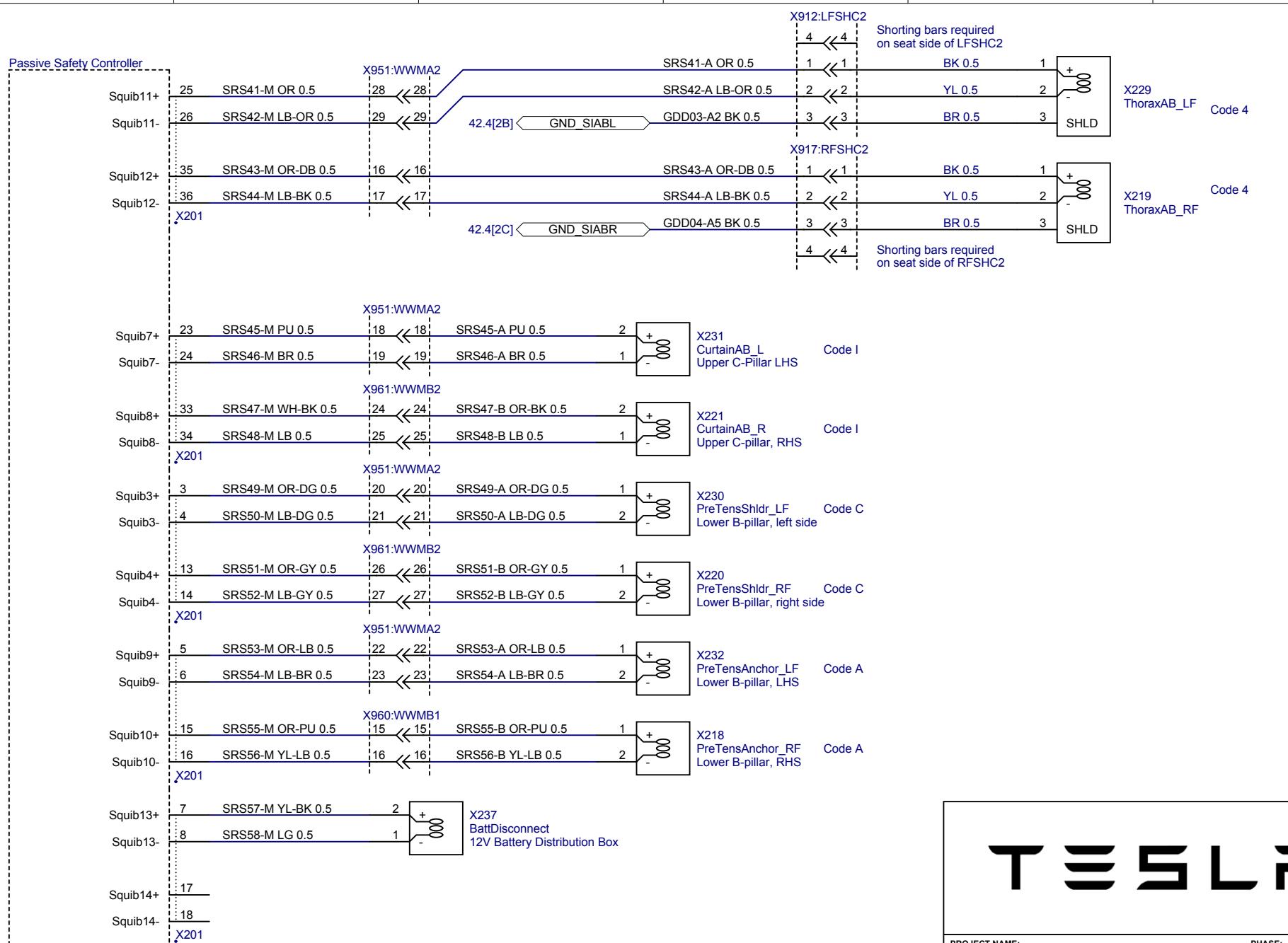
PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Safety - Passive Safety Restraints Control 3/6

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 26.3



### Circuits SRS29-SRS58 gold plate @ inline connectors

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PROJECT NAME: Model 5 Wiring Diagram: LHD PHASE: SOP(2012)

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 26.4

## Federal Rear Seat

A

A

Included in Seat Assemblies  
Wiring shown here for reference only

No North America specific content

Main Vehicle Wiring  
Wiring on this side is part of vehicle wiring

B

B

C

C

D

D

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PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Safety - Passive Safety Restraints Control 5/6

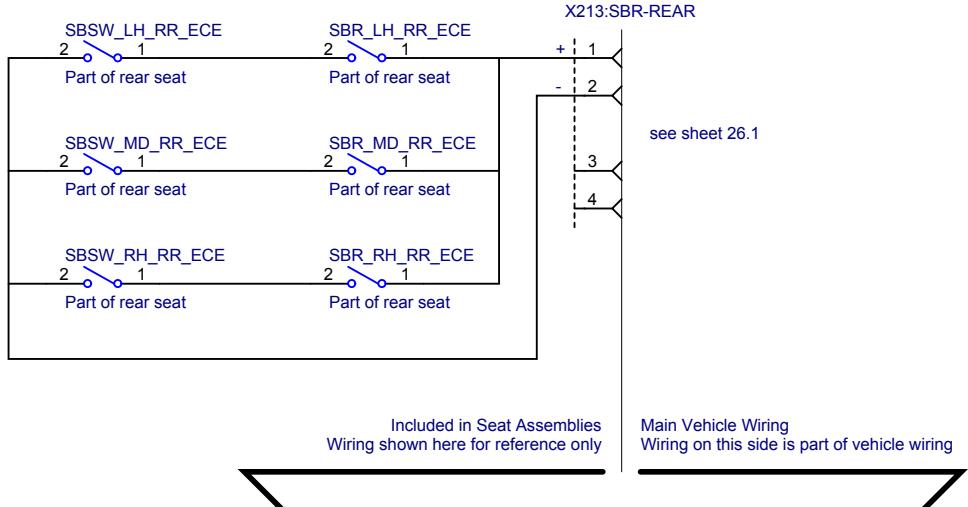
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 26.5

## ECE Rear Seat

SBSW = 0 ohm when unbuckled, open when buckled  
SBR = 10k when occupied, open when not occupied



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**TESLA**

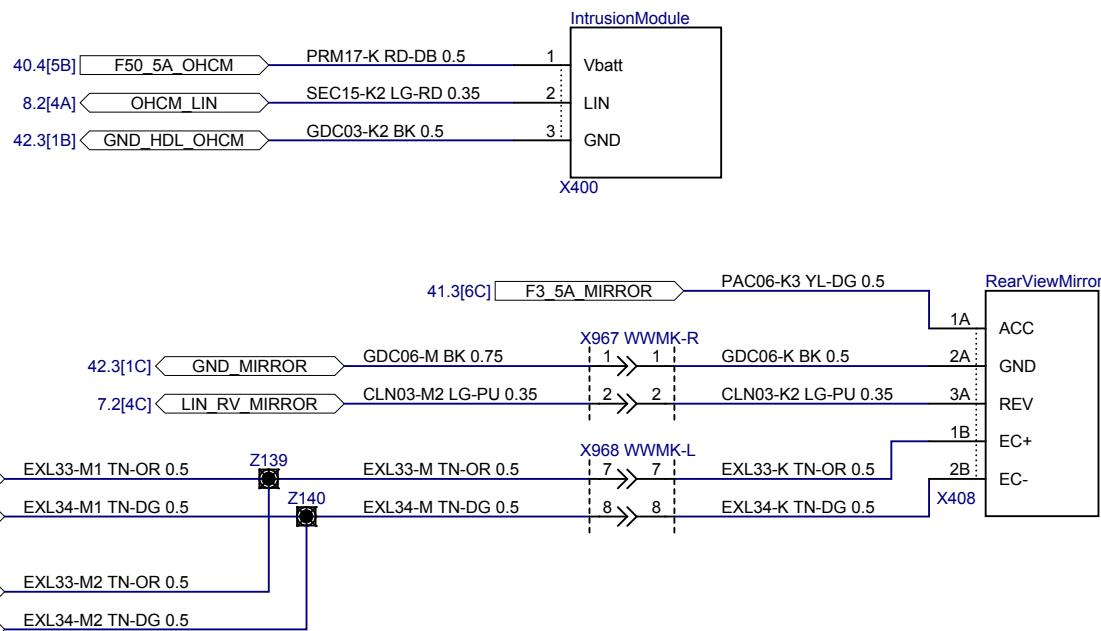
PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Safety - Passive Safety Restraints Control 6/6

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 26.6



**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Overhead Control Module

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

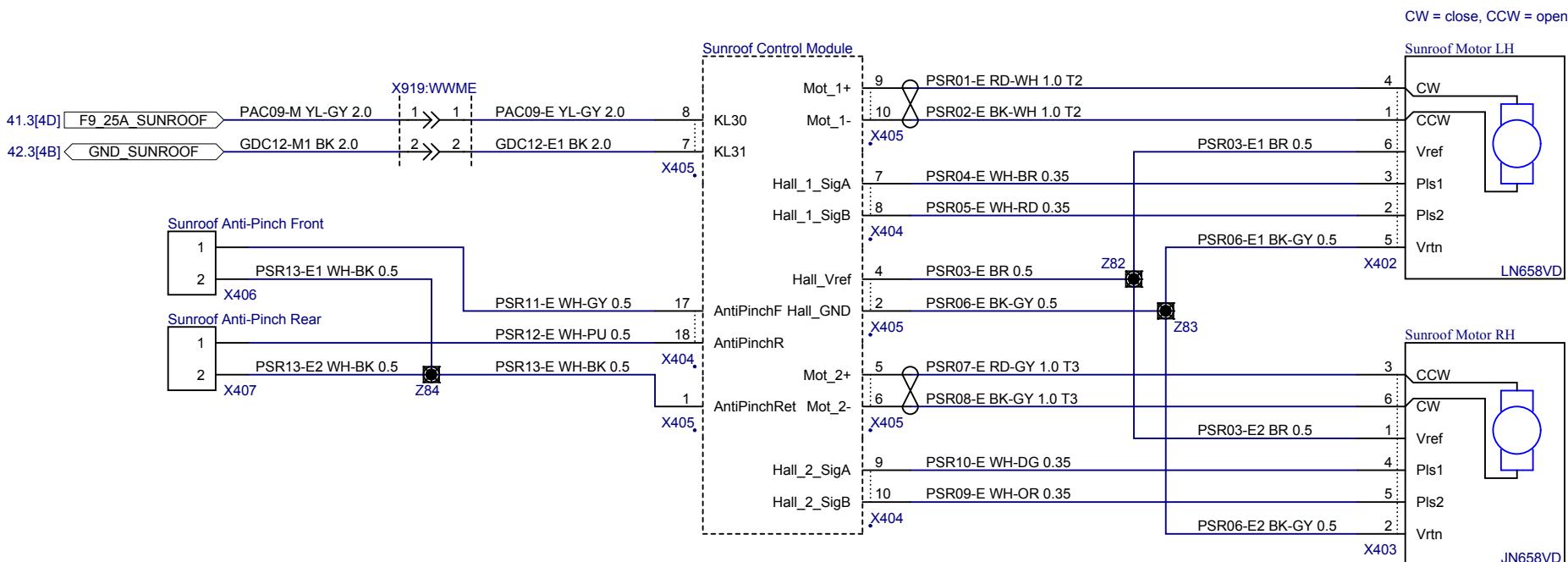
DO NOT SCALE

SHEET 27.1

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

A

A



B

B

CW = open, CCW = close

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Panoramic Sunroof

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

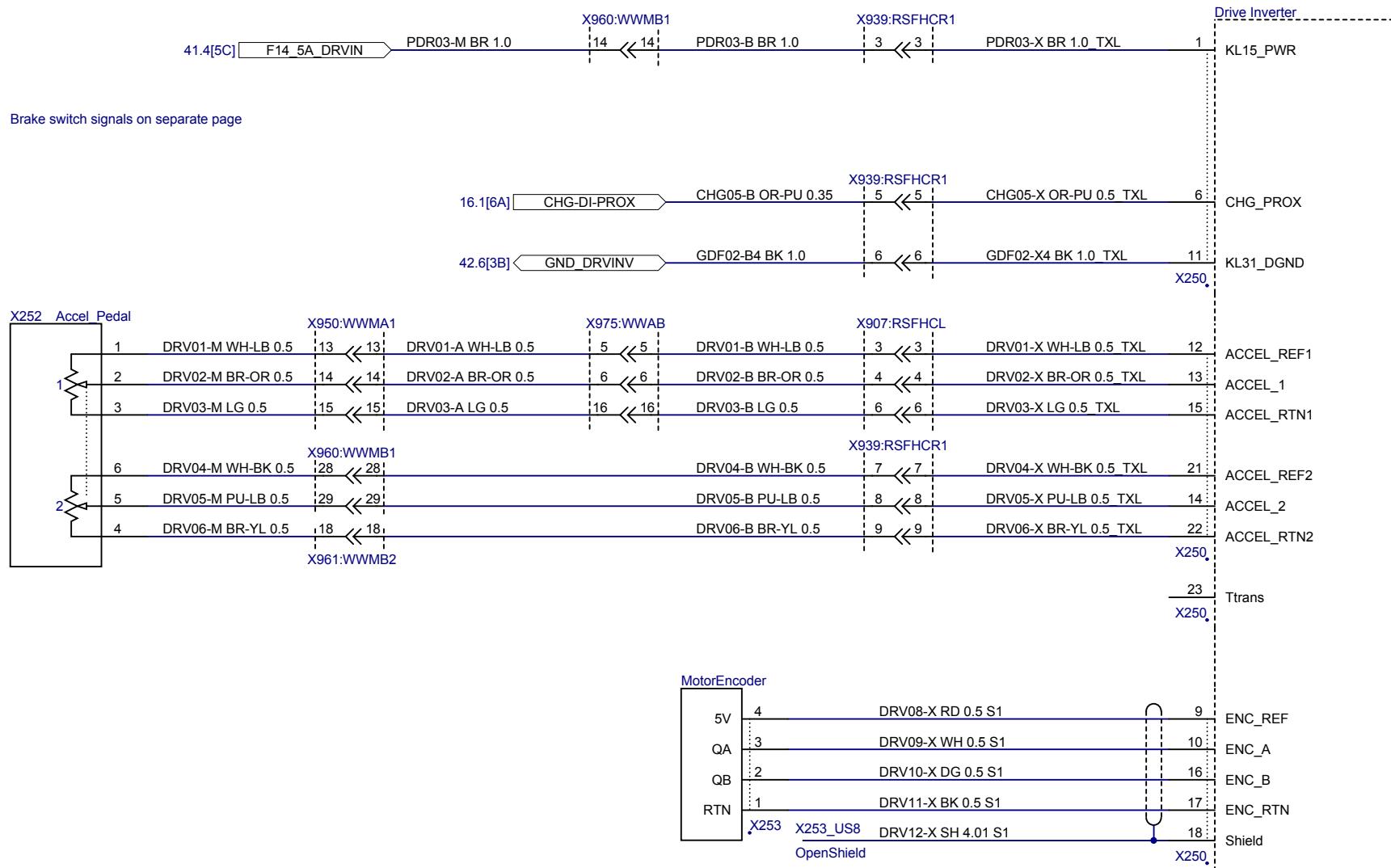
SHEET 27.2

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

T E S L A

D

D



PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Drive Inverter

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

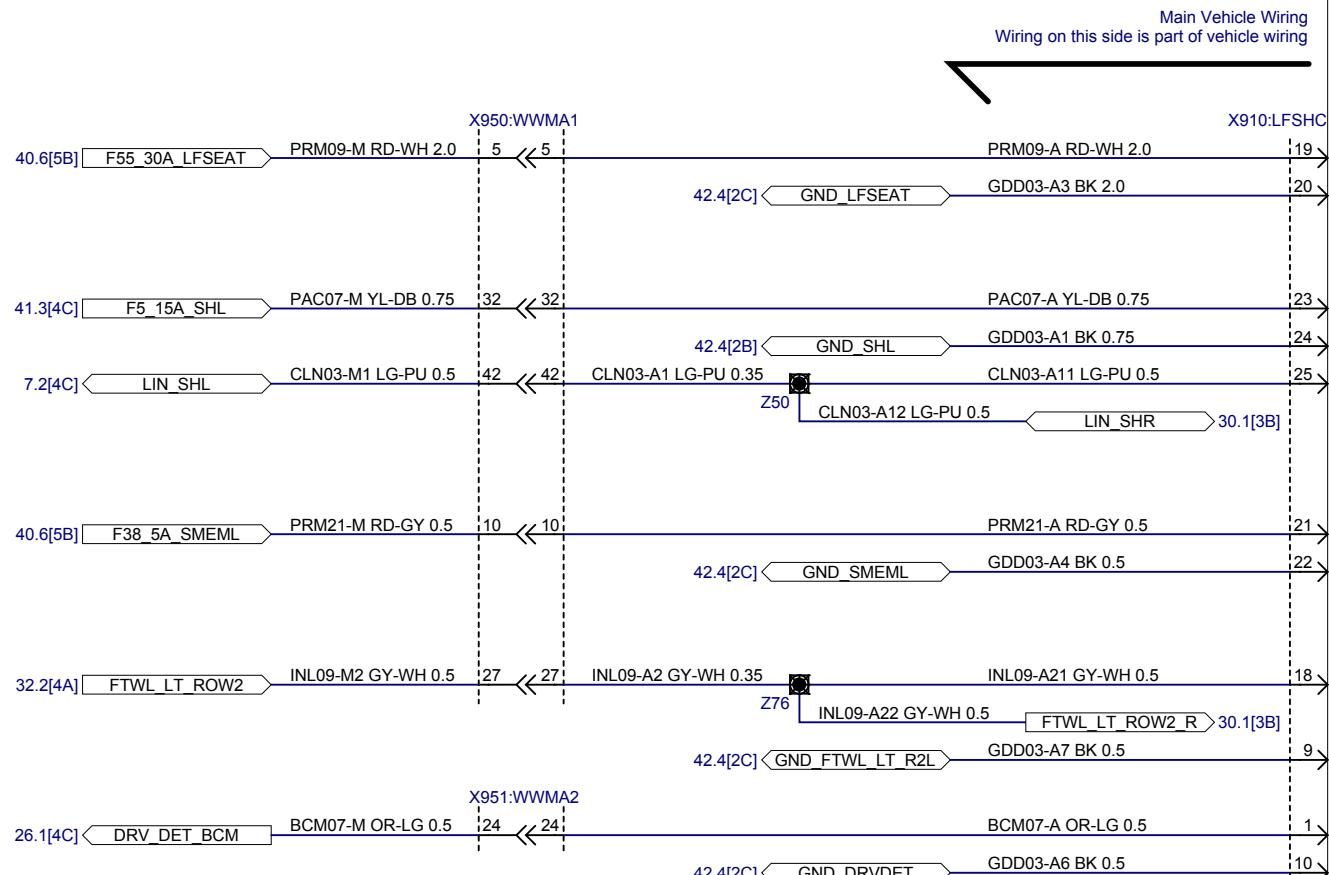
DO NOT SCALE

SHEET 28.1

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A

A



B

B

C

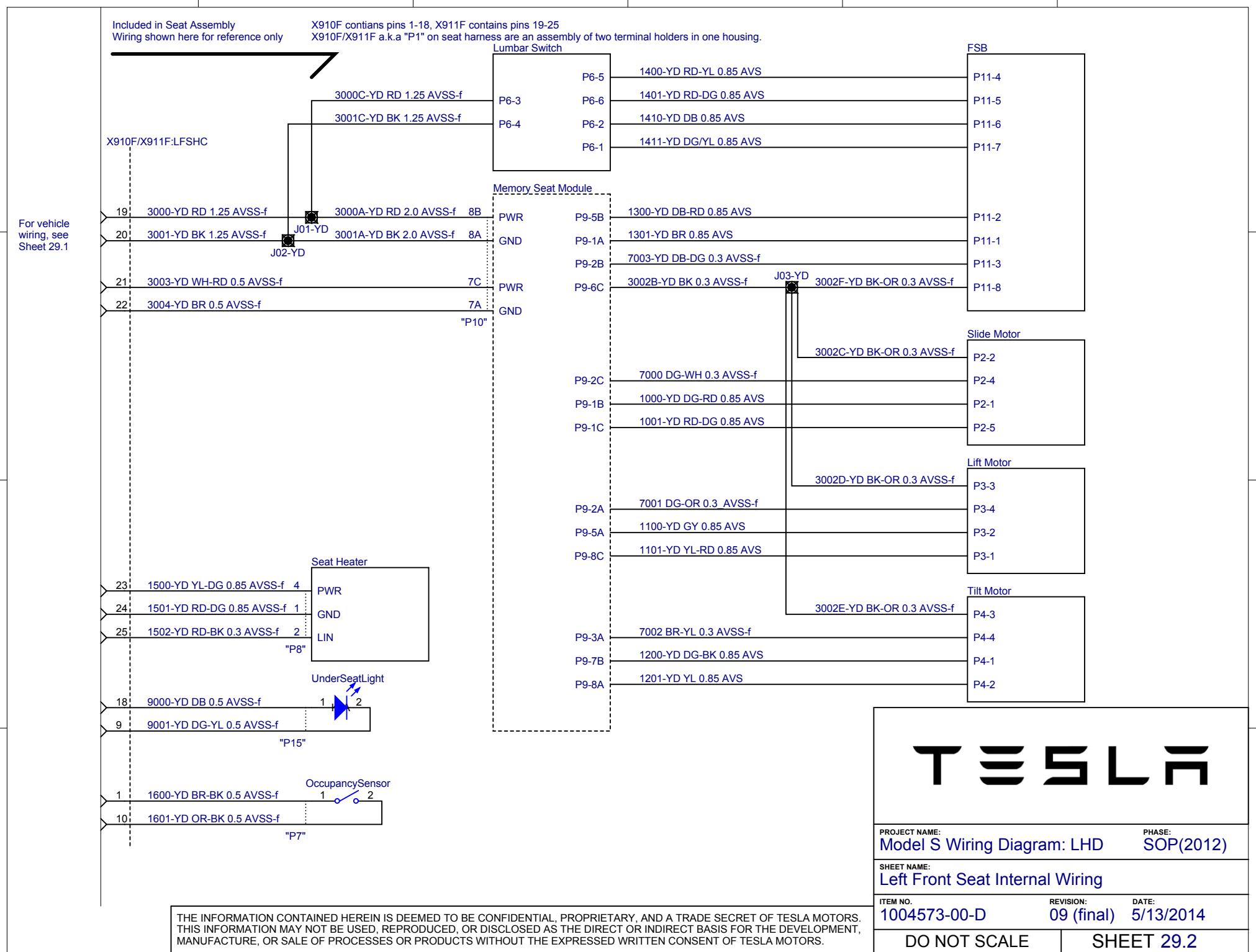
C

D

D

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PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)  
SHEET NAME: Left Front Seat Vehicle Interface  
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014  
DO NOT SCALE SHEET 29.1



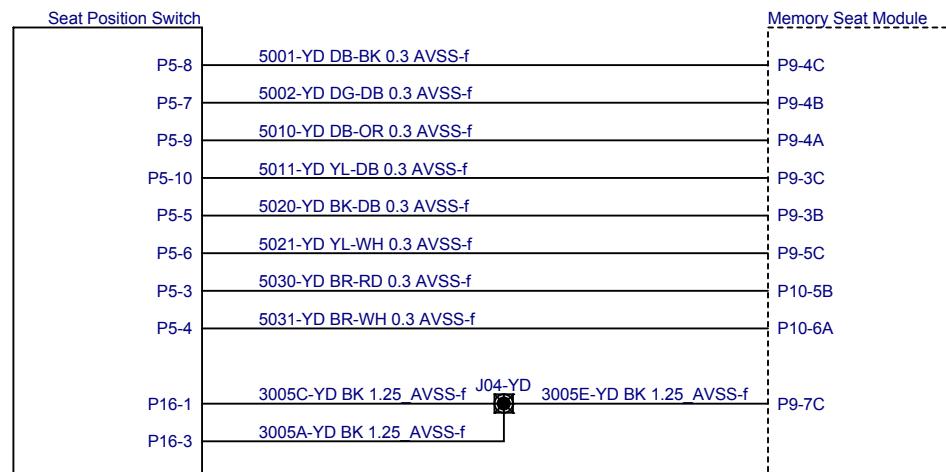
Included in Seat Assembly  
Wiring shown here for reference only

X910F contains pins 1-18, X911F contains pins 19-25  
X910F/X911F a.k.a "P1" on seat harness are an assembly of two terminal holders in one housing.

A

A

For vehicle  
wiring, see  
Sheet 29.1



B

B

C

C

D

D

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

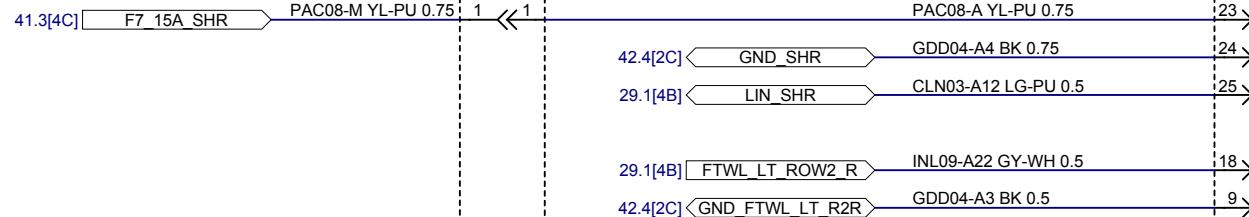
SHEET NAME: Left Front Seat Internal Wiring

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

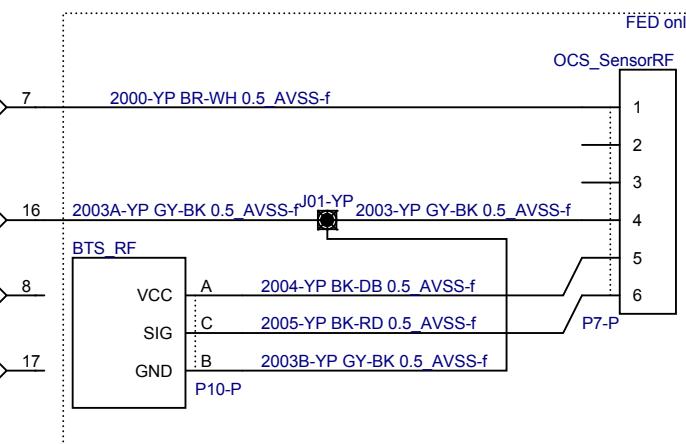
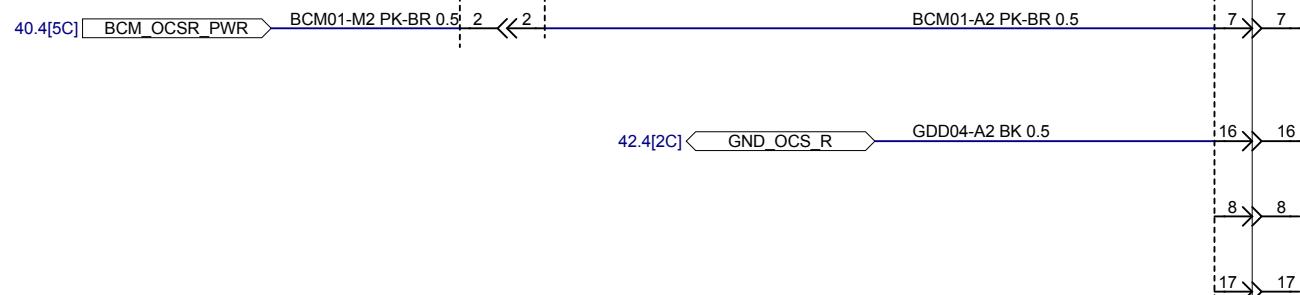
DO NOT SCALE

SHEET 29.3

Main Vehicle Wiring  
Wiring on this side is part of vehicle wiring



See following pages for passenger's seat wiring  
that is not related to specific systems already indicated  
in other sections of the wiring diagram



**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Right Front Seat Vehicle Interface

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 30.1

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Included in Seat Assembly  
Wiring shown here for reference only

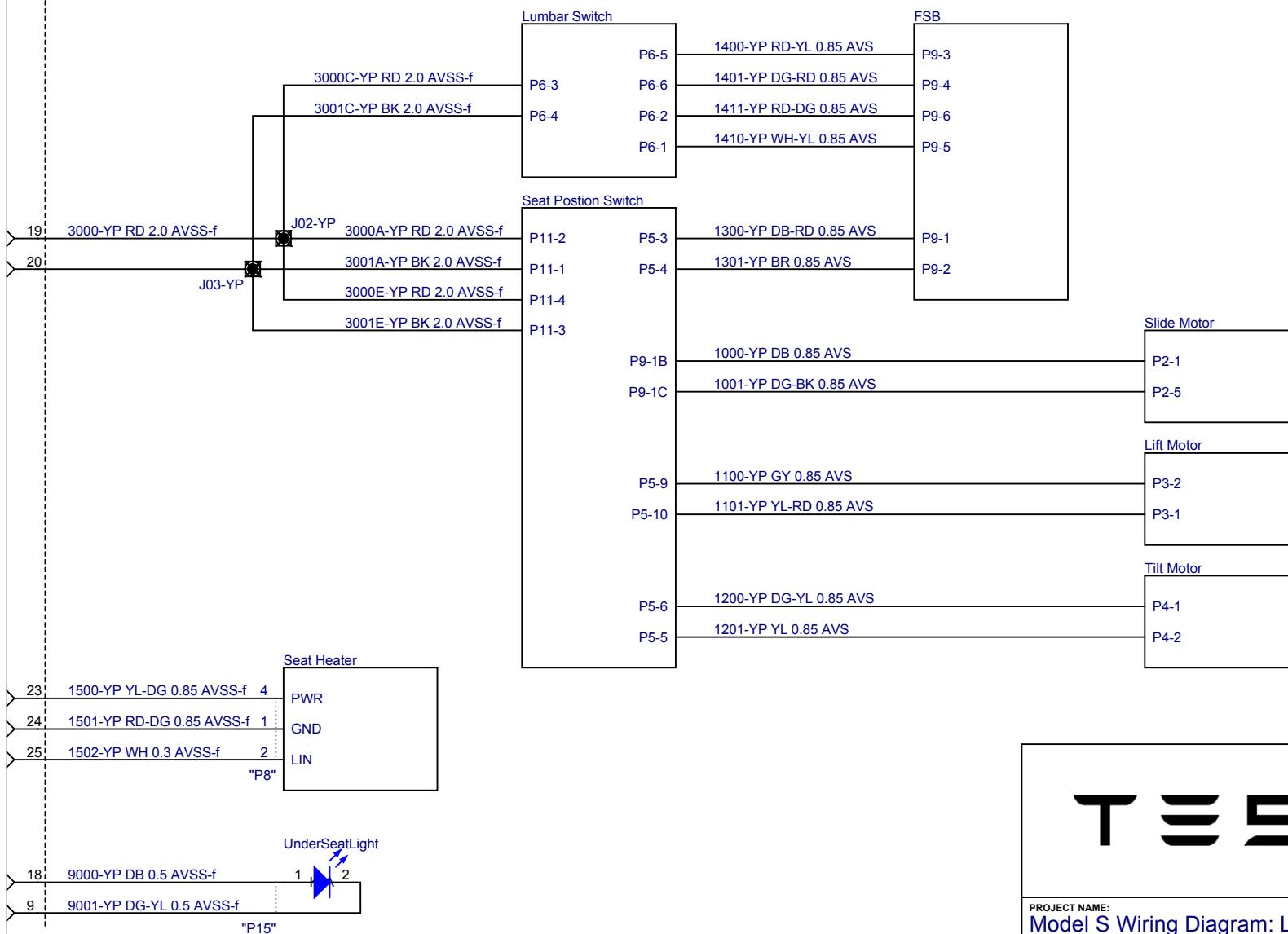
X915F contains pins 1-18, X916F contains pins 19-25  
X915F/X916F a.k.a "P1" on seat harness are an assembly of two terminal holders in one housing.

A

A

X915/X916:RFSHC

For vehicle  
wiring, see  
Sheet 30.1



TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Right Front Seat Internal Wiring - Power Option

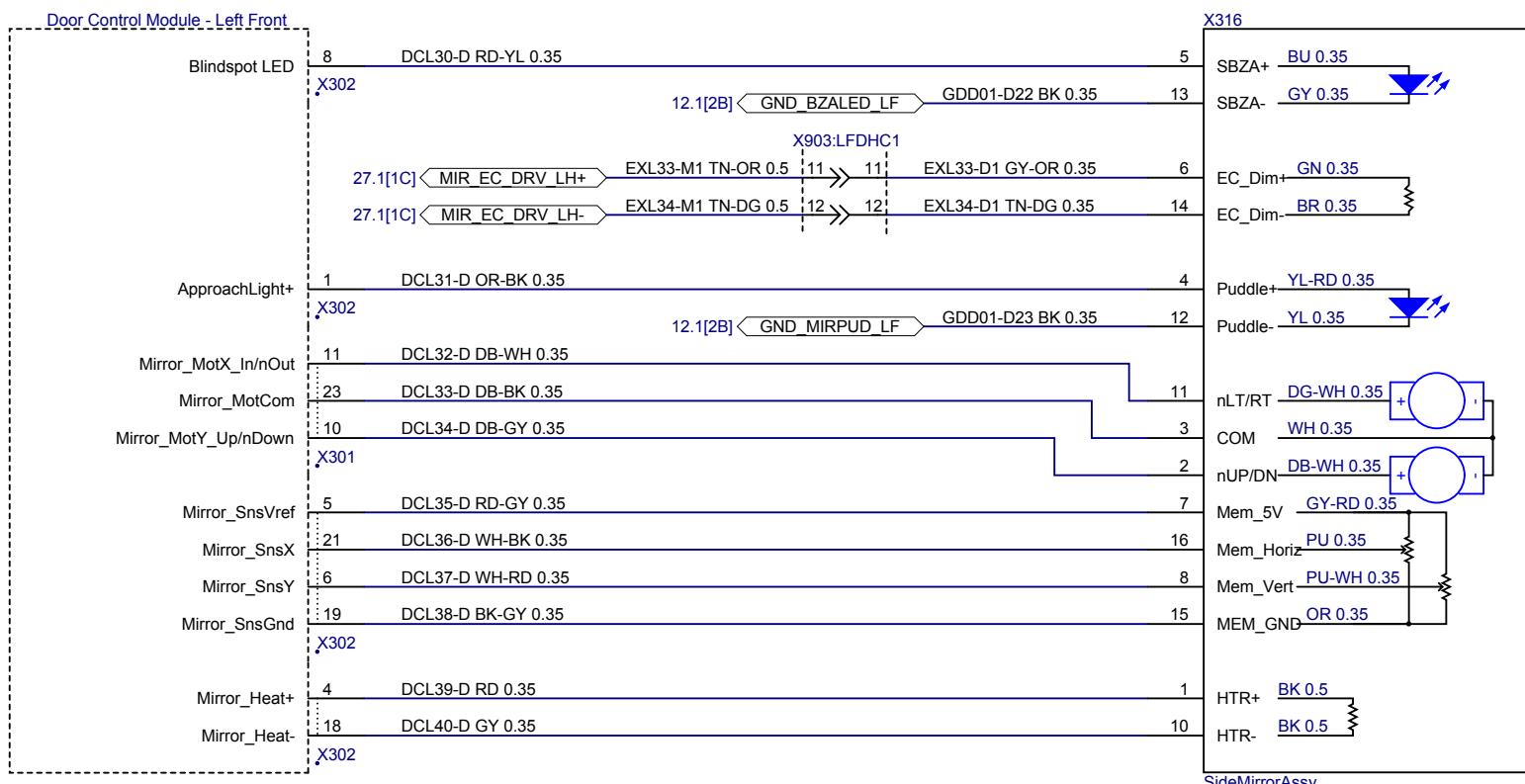
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 30.2

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

A



Mirror control commands come to the drive door control module via LIN from the driver-door switchpack module. Mirror controls for the passenger side mirror are then passed over CAN to the passenger door control module.

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

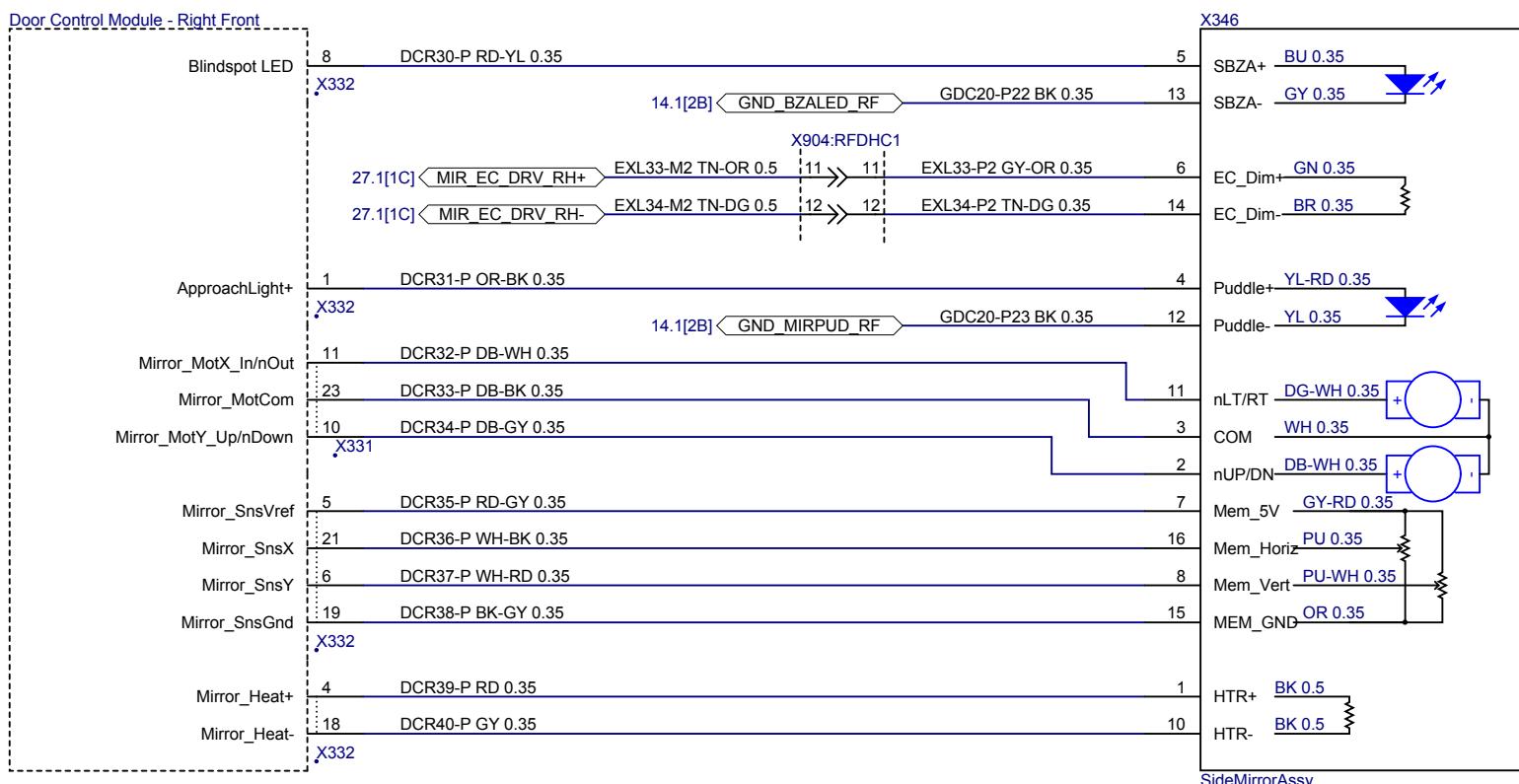
SHEET NAME: Side Mirror Interface - Left

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 31.1

A



B

C

Mirror control commands come to the drive door control module via LIN from the driver-door switchpack module. Mirror controls for the passenger side mirror are then passed over CAN to the passenger door control module.

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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

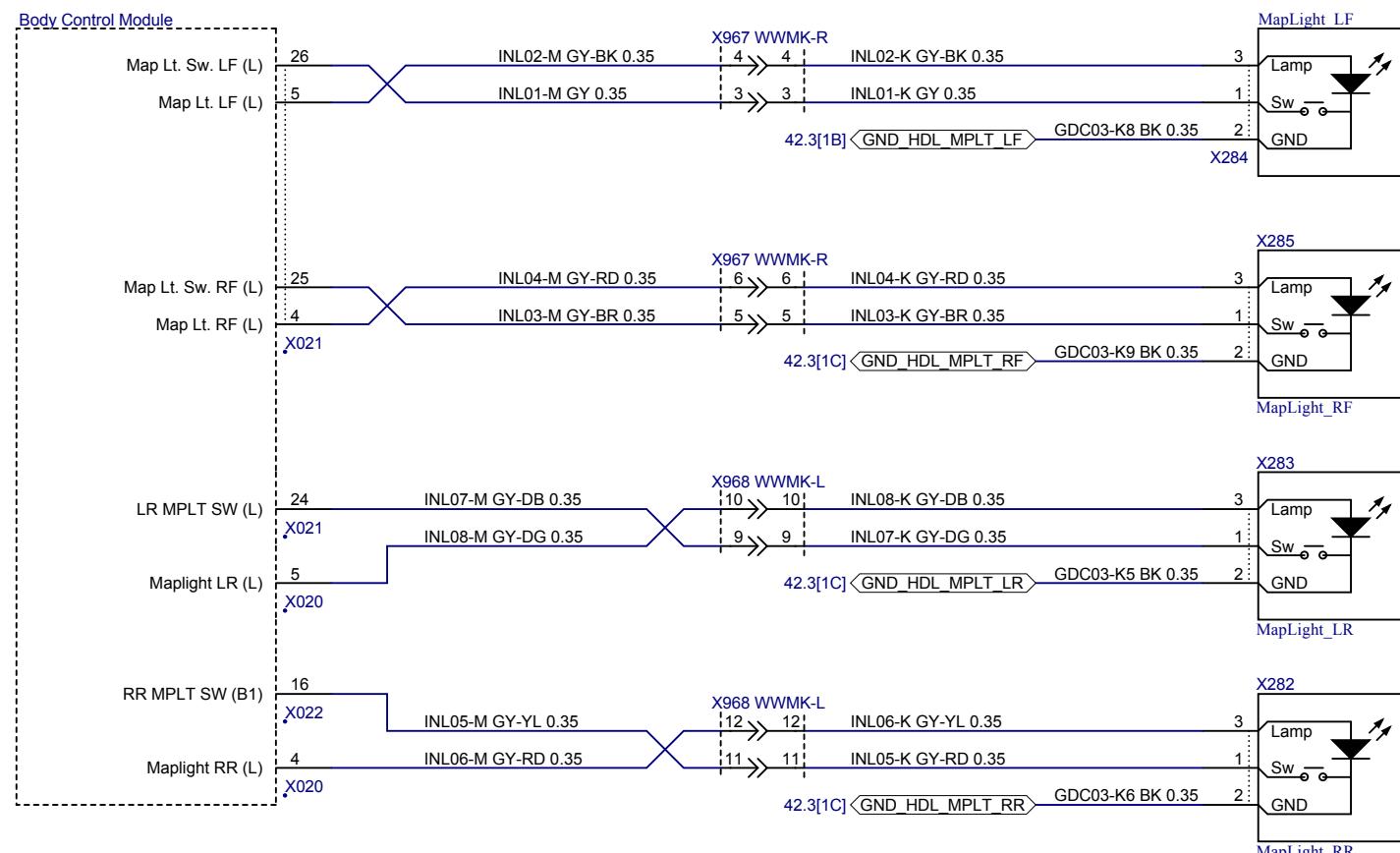
SHEET NAME: Side Mirror Interface - Right

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 31.2

A



A

B

B

C

C

D

D

# TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Interior Lighting - Maplights

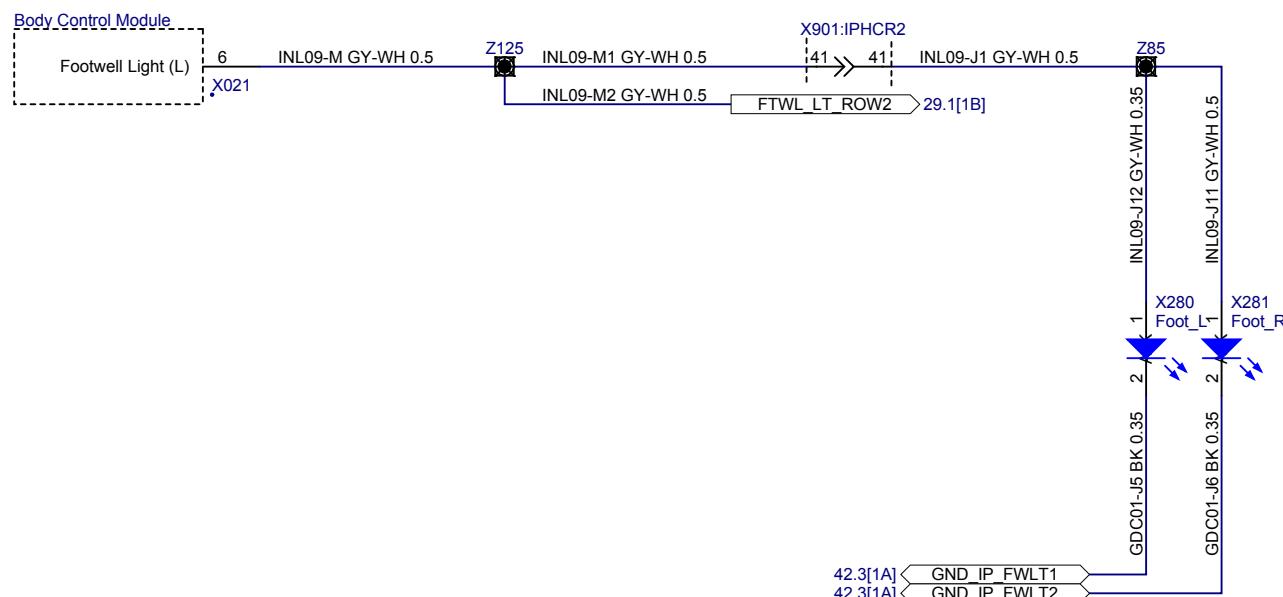
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

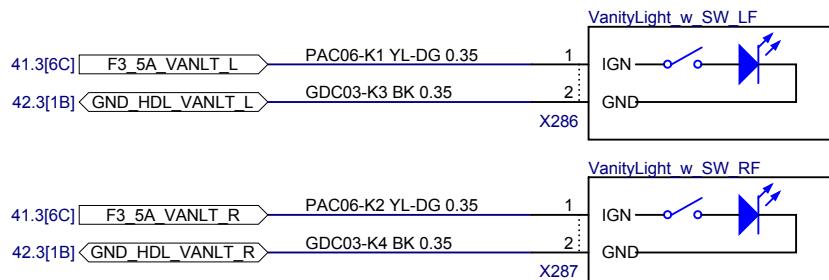
SHEET 32.1

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A

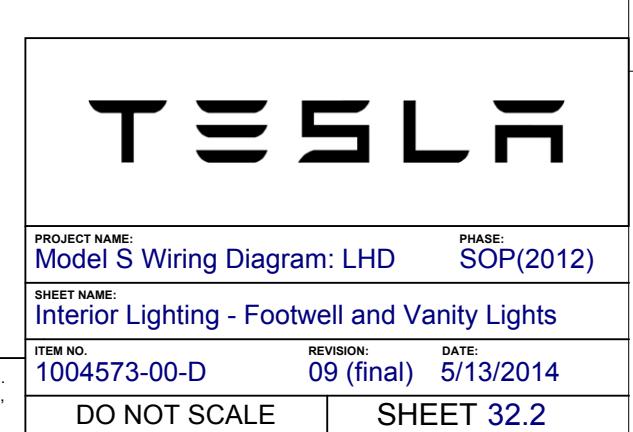


B

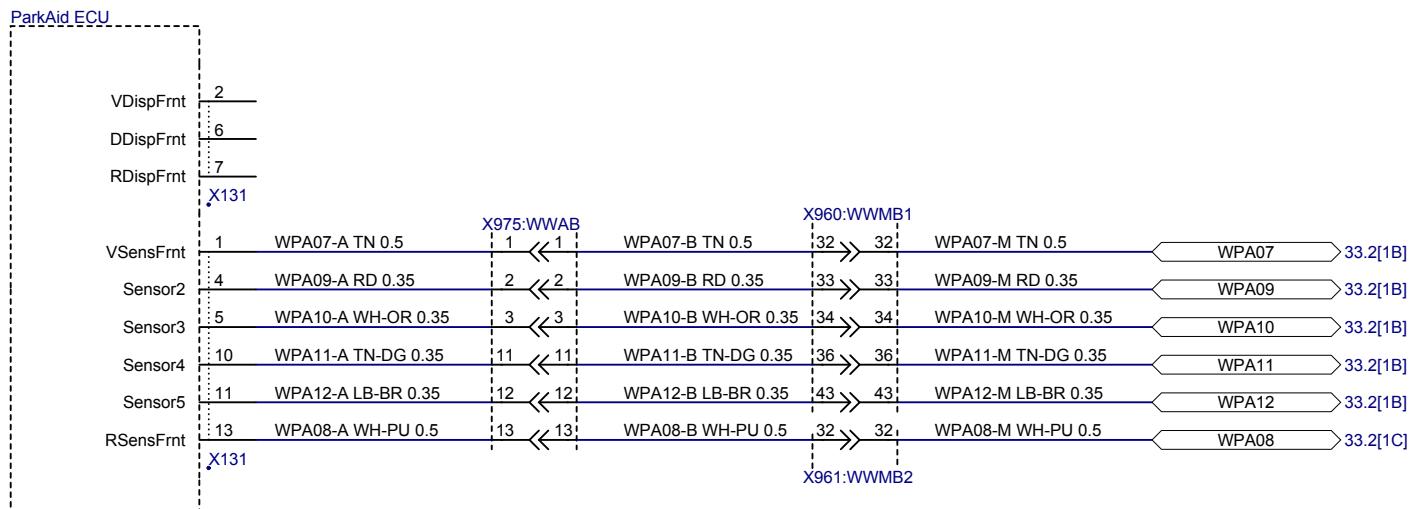
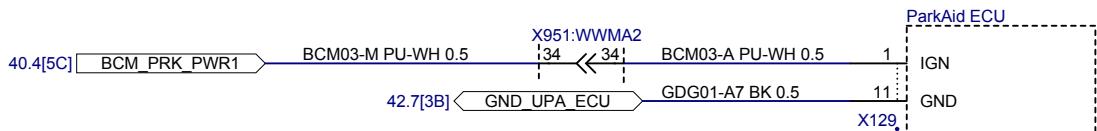


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Function not installed on corresponding vehicles

All items this page for Advanced Safety Option Only

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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Parking Aids, ECU Interface + Front Sensors

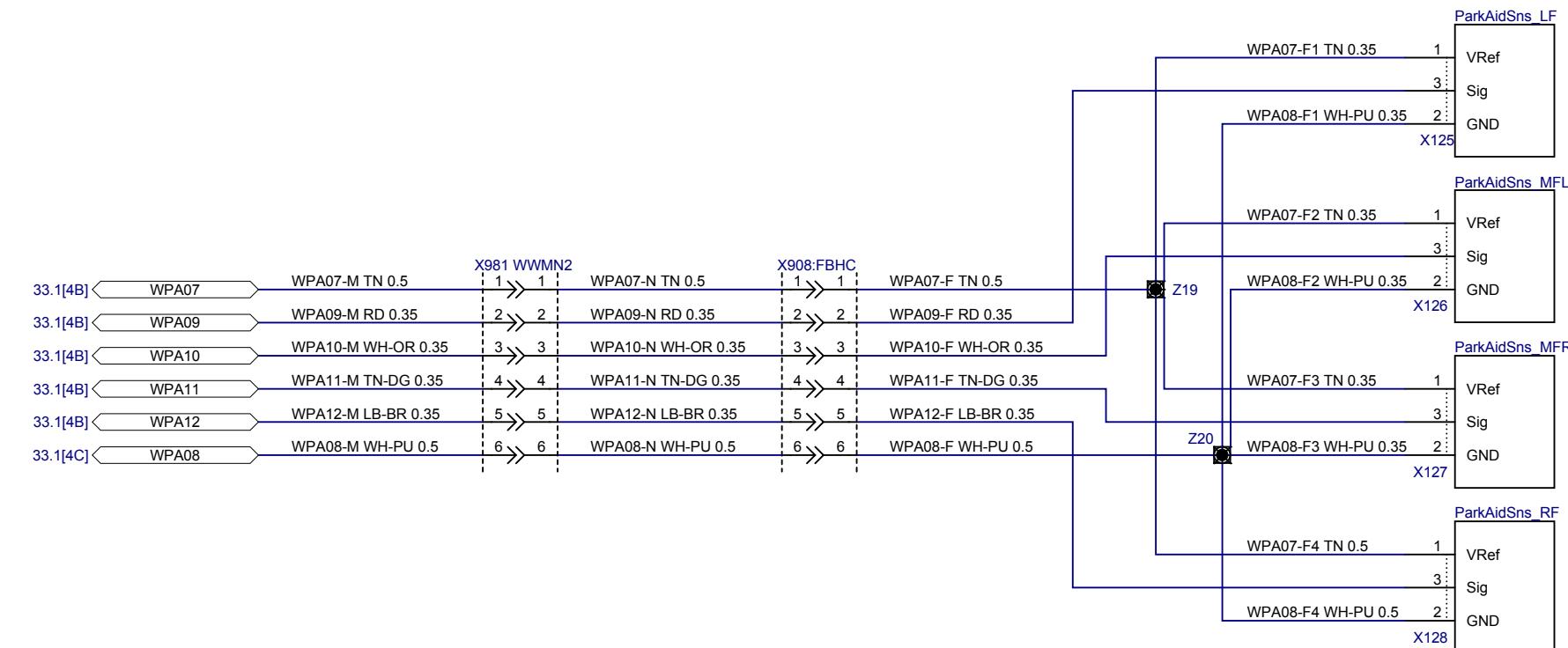
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 33.1

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Function not installed on corresponding vehicles

All items this page for Advanced Safety Option Only

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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Parking Aids, ECU Interface + Front Sensors

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

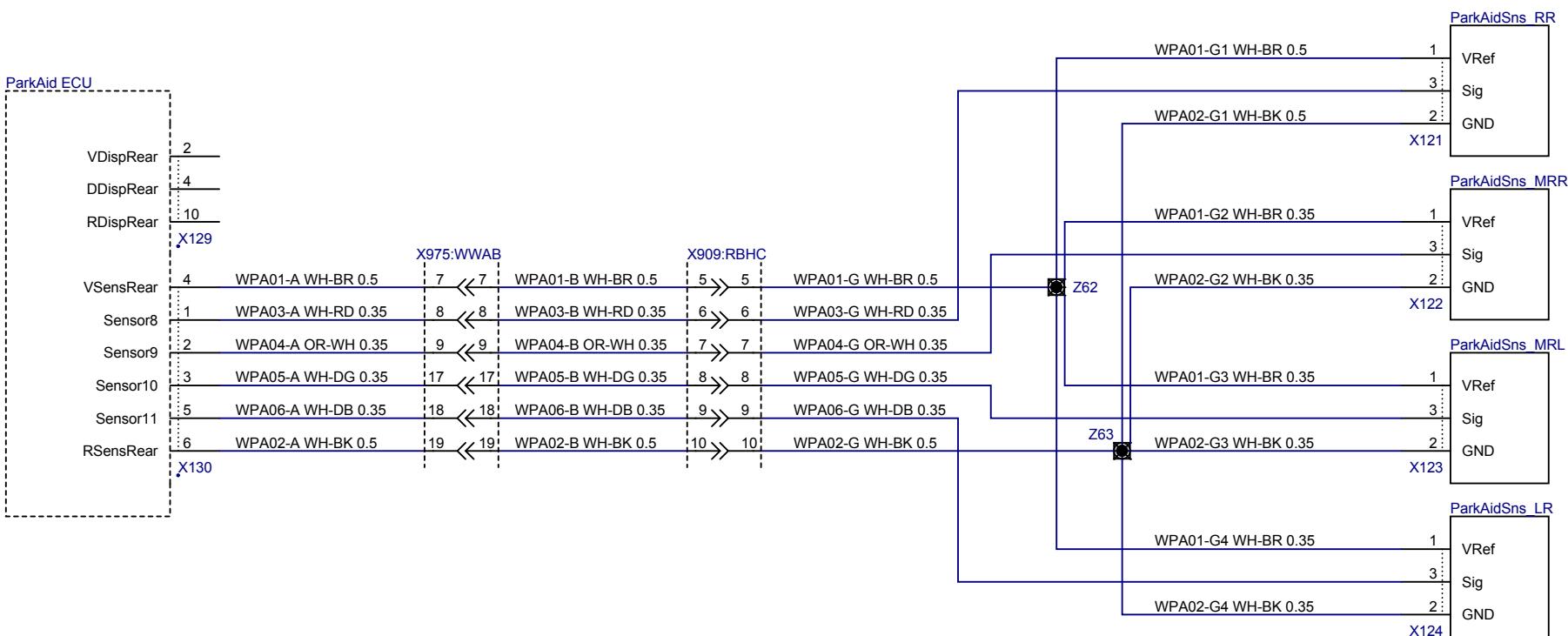
SHEET 33.2

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Function not installed on corresponding vehicles

All items this page for Advanced Safety Option Only

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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Parking Aid Rear Sensors

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 33.3

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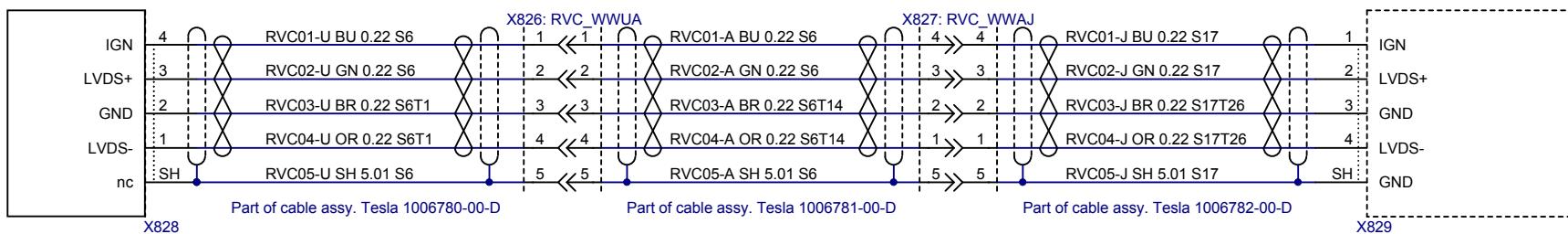
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**TESLA**

PROJECT NAME: **Model S Wiring Diagram: LHD** PHASE: **SOP(2012)**

SHEET NAME: **Rear View Camera**

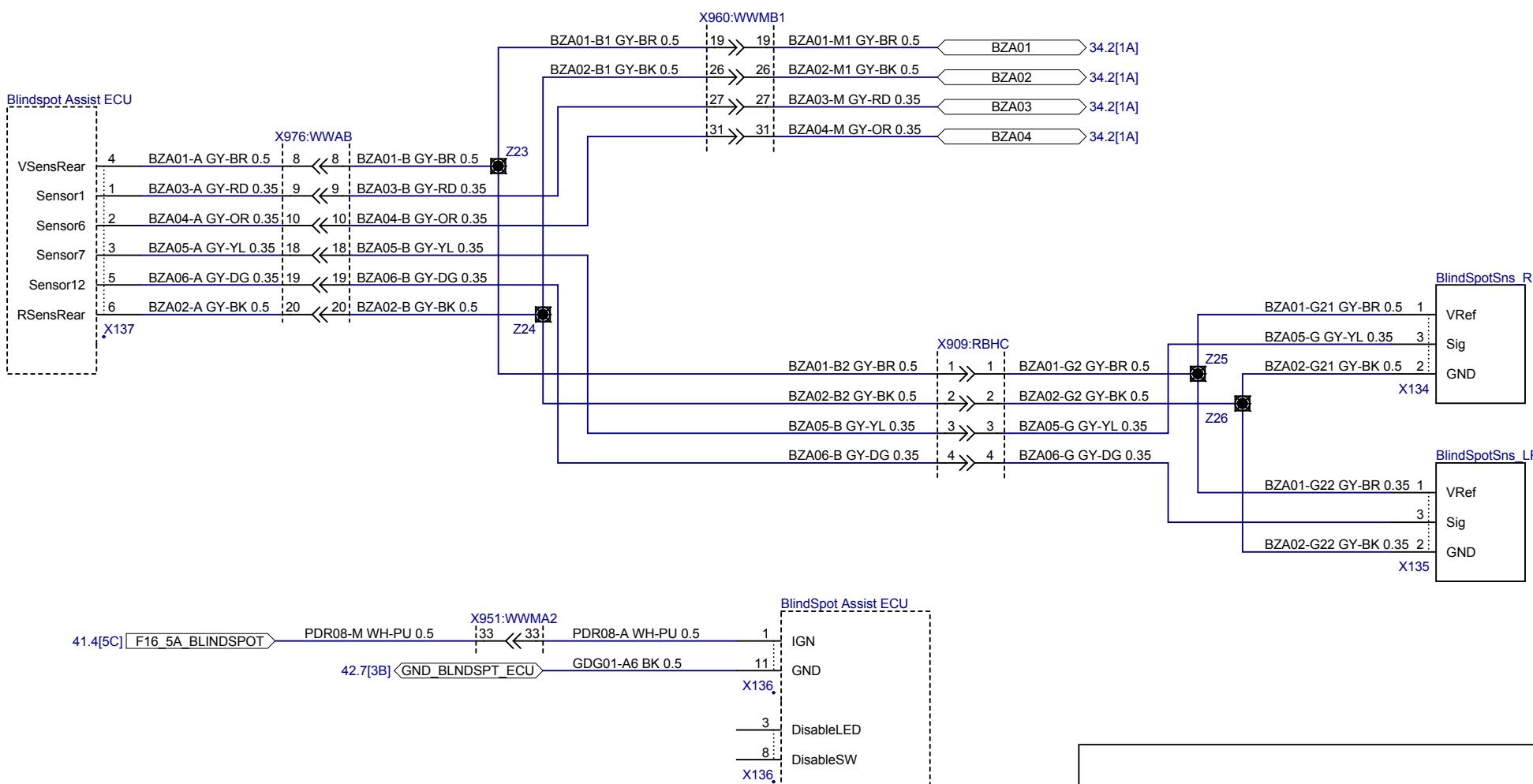
ITEM NO. **1004573-00-D** REVISION: **09 (final)** DATE: **5/13/2014**

DO NOT SCALE

SHEET 33.4

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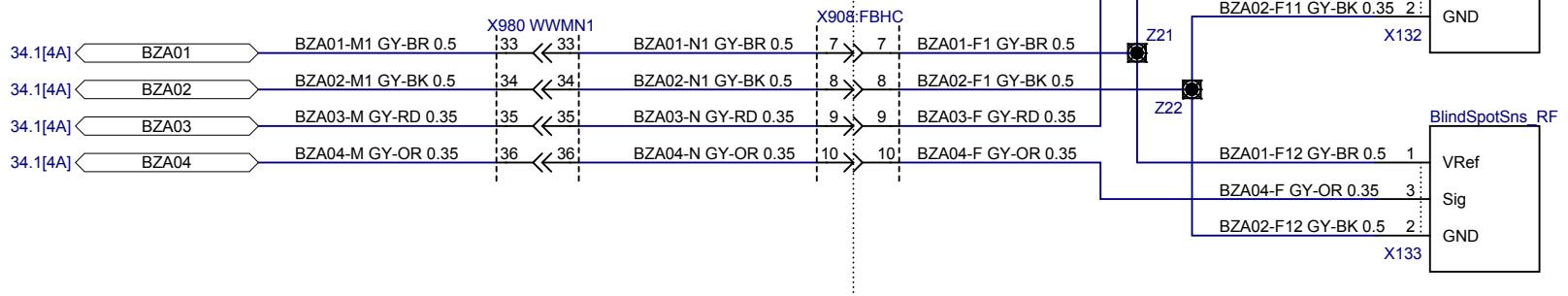
Function not supported on corresponding vehicles

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PROJECT NAME:	Model S Wiring Diagram: LHD	PHASE:	SOP(2012)
SHEET NAME:	Advanced Safety - Blind Zone Assist		
ITEM NO.	1004573-00-D	REVISION:	DATE: 09 (final) 5/13/2014
DO NOT SCALE		SHEET 34.1	

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Function not supported on corresponding vehicles

TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Advanced Safety - Blind Zone Assist

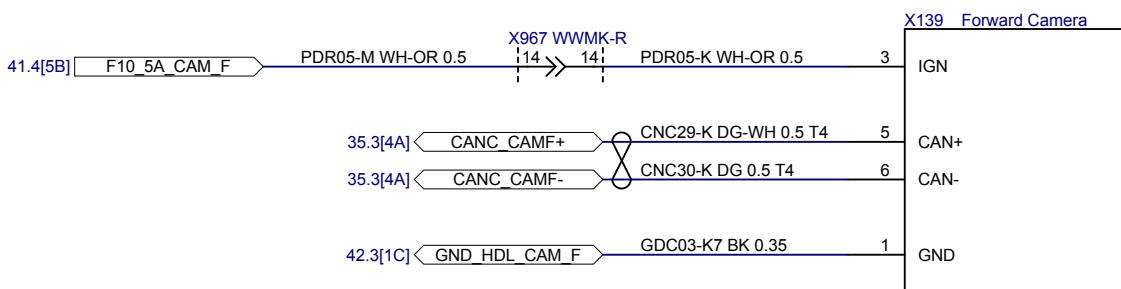
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 34.2

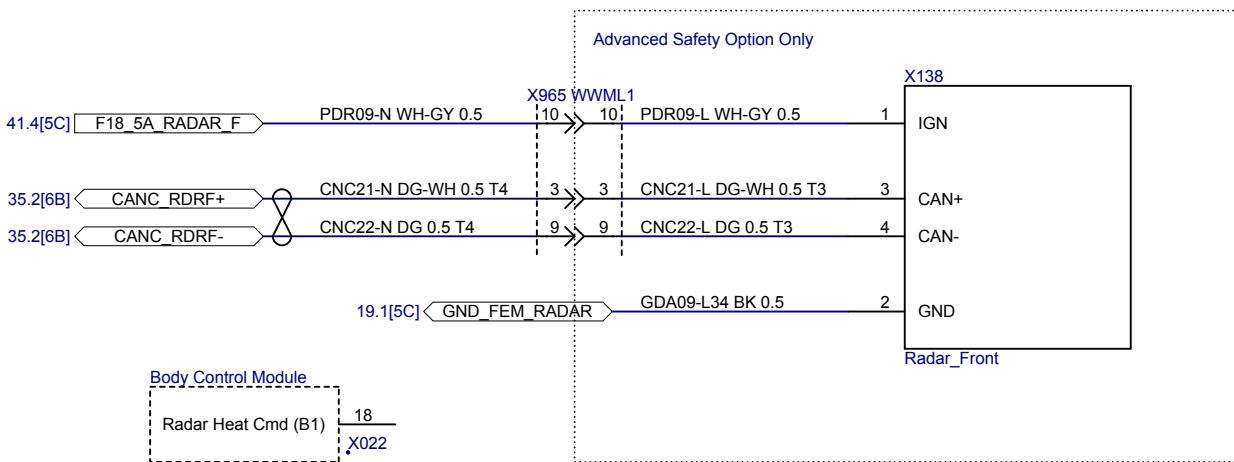
THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

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Function not supported on corresponding vehicles

**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Advanced Safety - Front Camera and Radar

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 34.3

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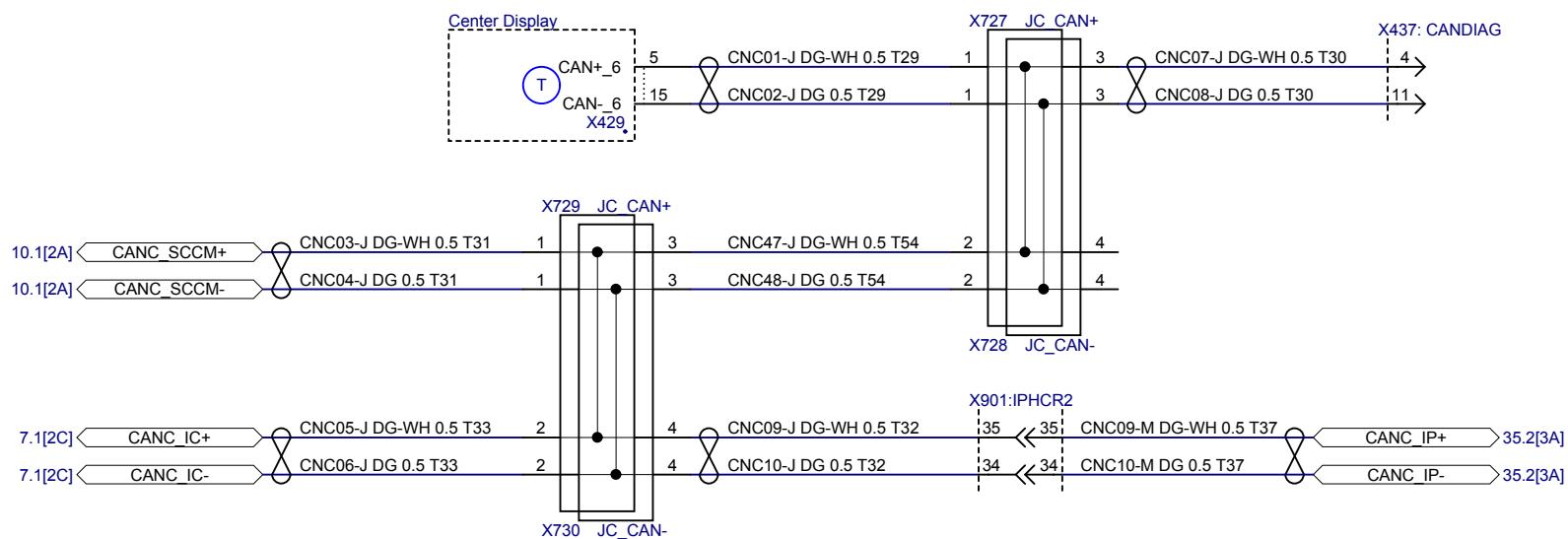
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# TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Chassis CAN Network 1/4 (IP)

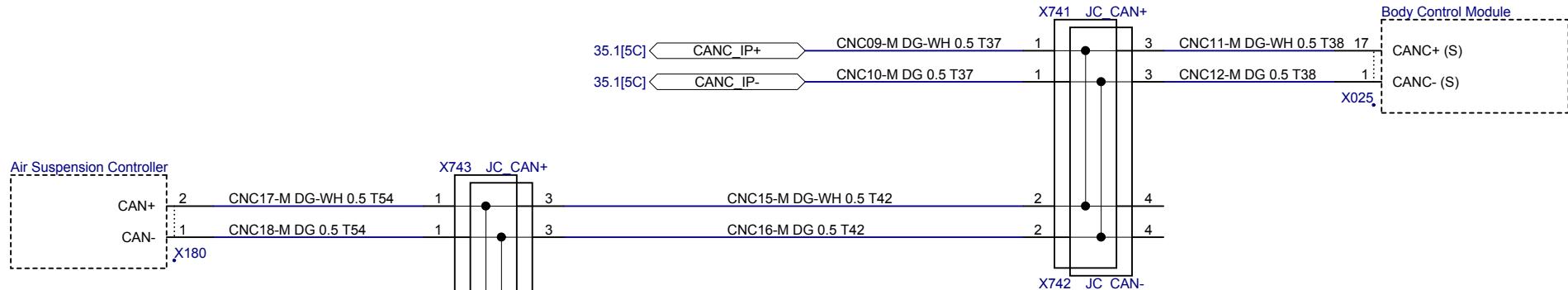
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

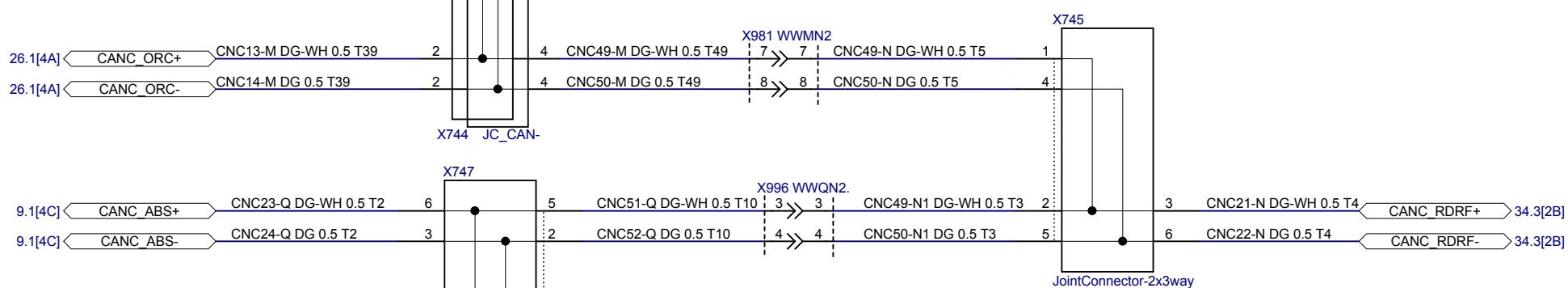
SHEET 35.1

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

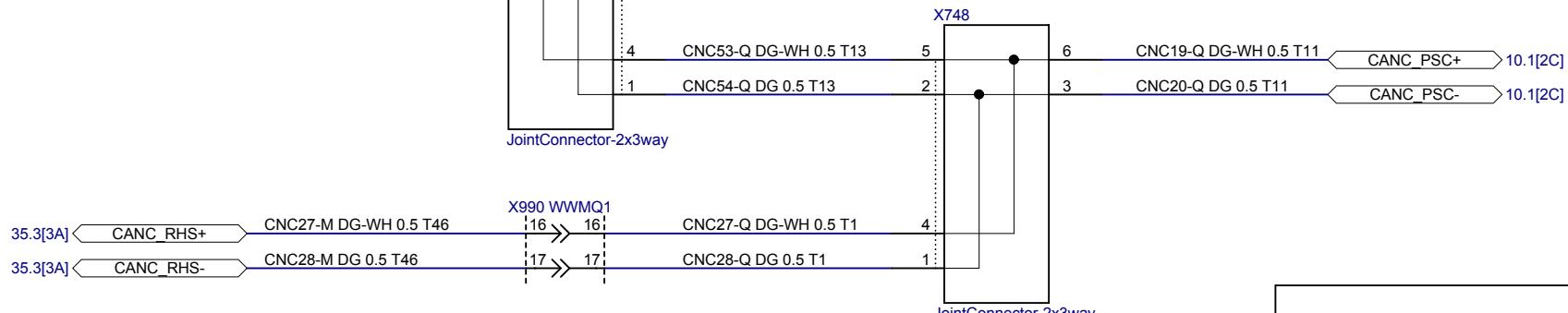
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X180 : pins 1-15 are GOLD plated

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**TESLA**

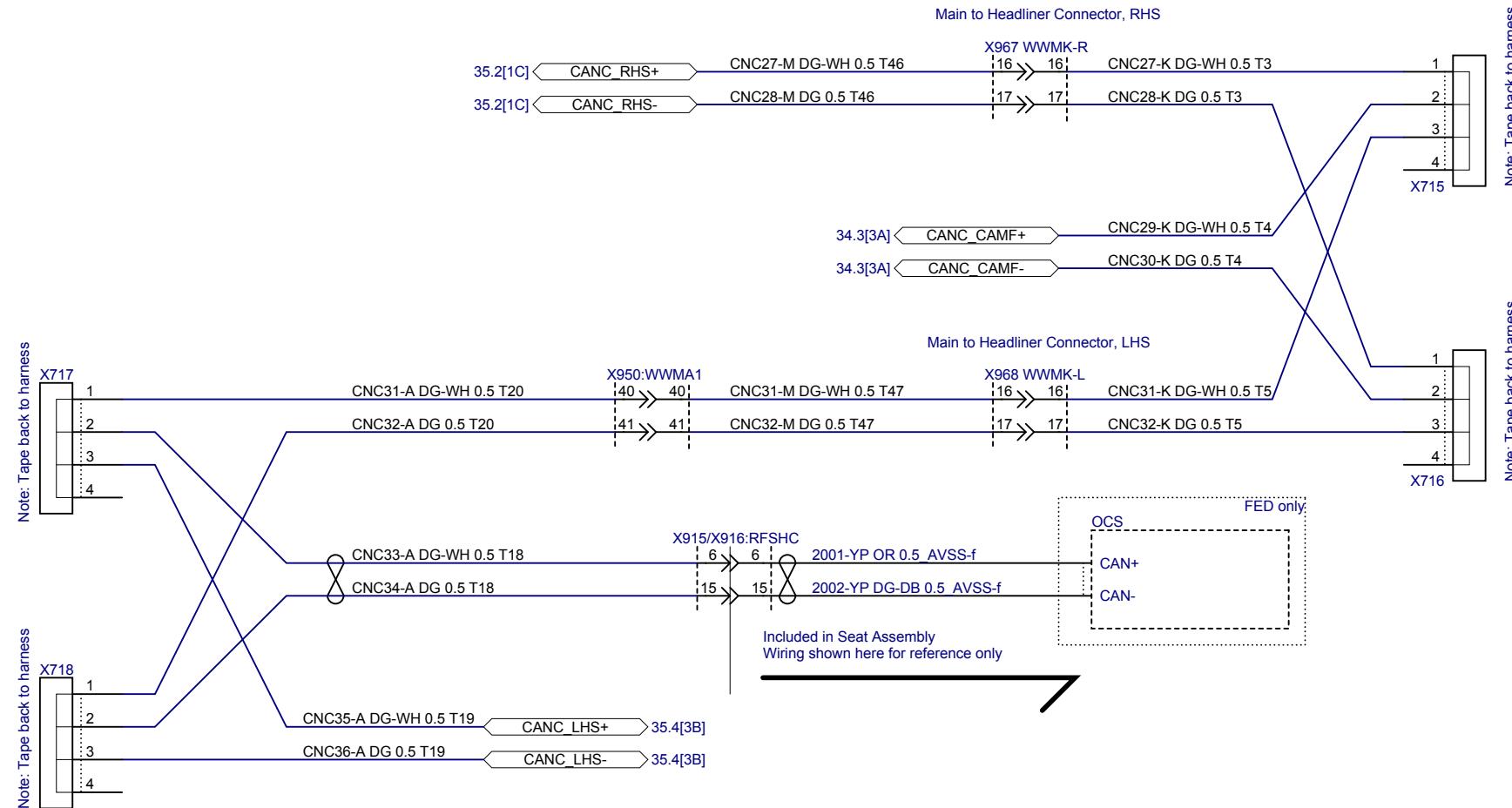
PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Chassis CAN Network 2/4

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 35.2



TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Chassis CAN Network 3/4

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

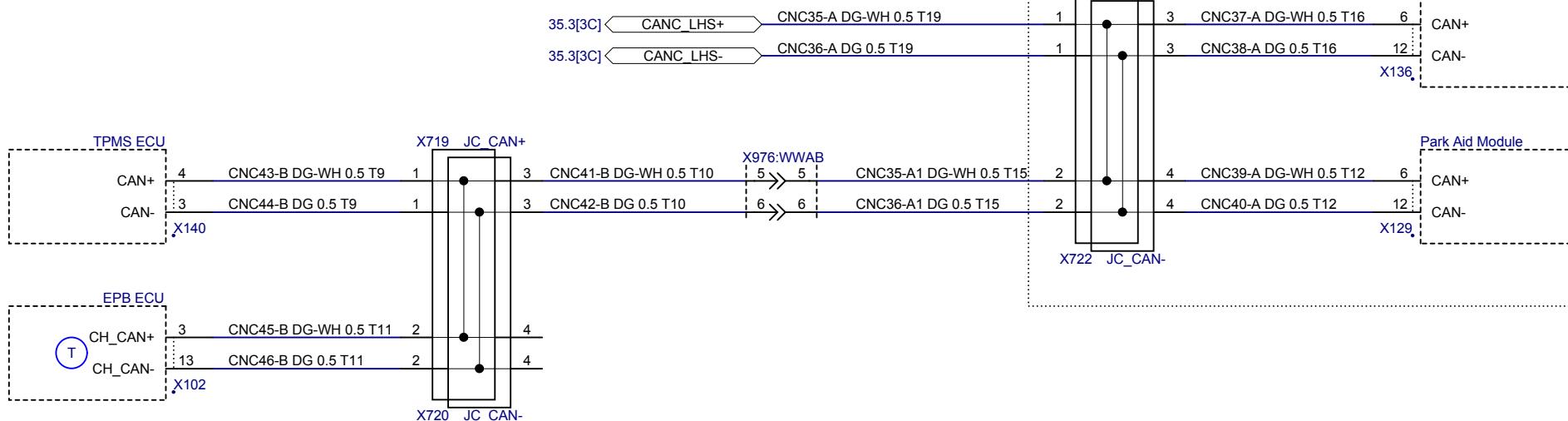
DO NOT SCALE

SHEET 35.3

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# TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Chassis CAN Network 4/4

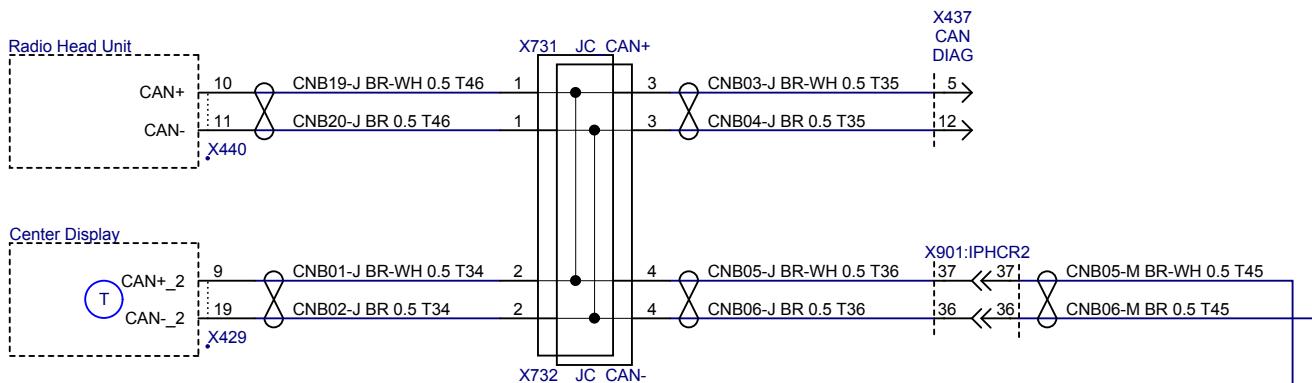
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 35.4

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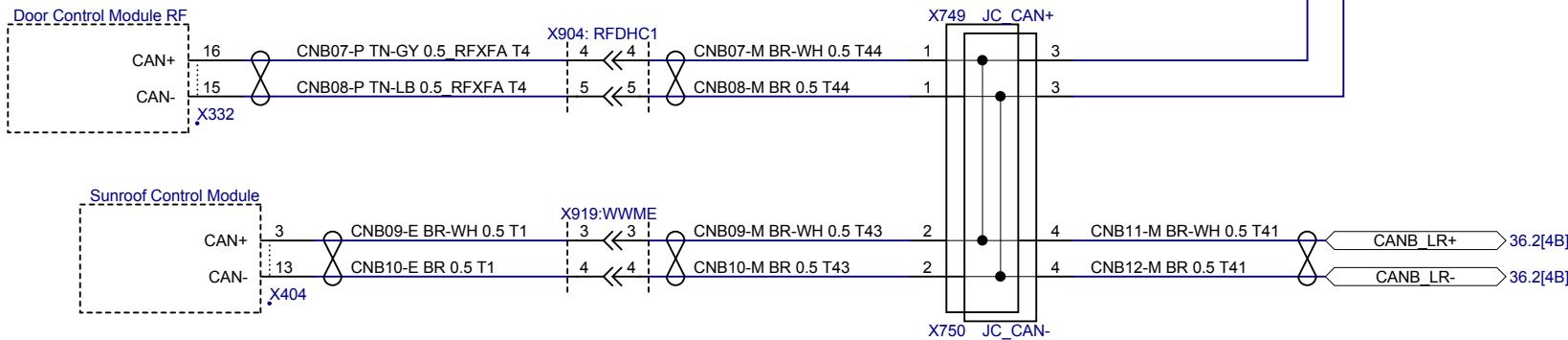
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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Body CAN Network

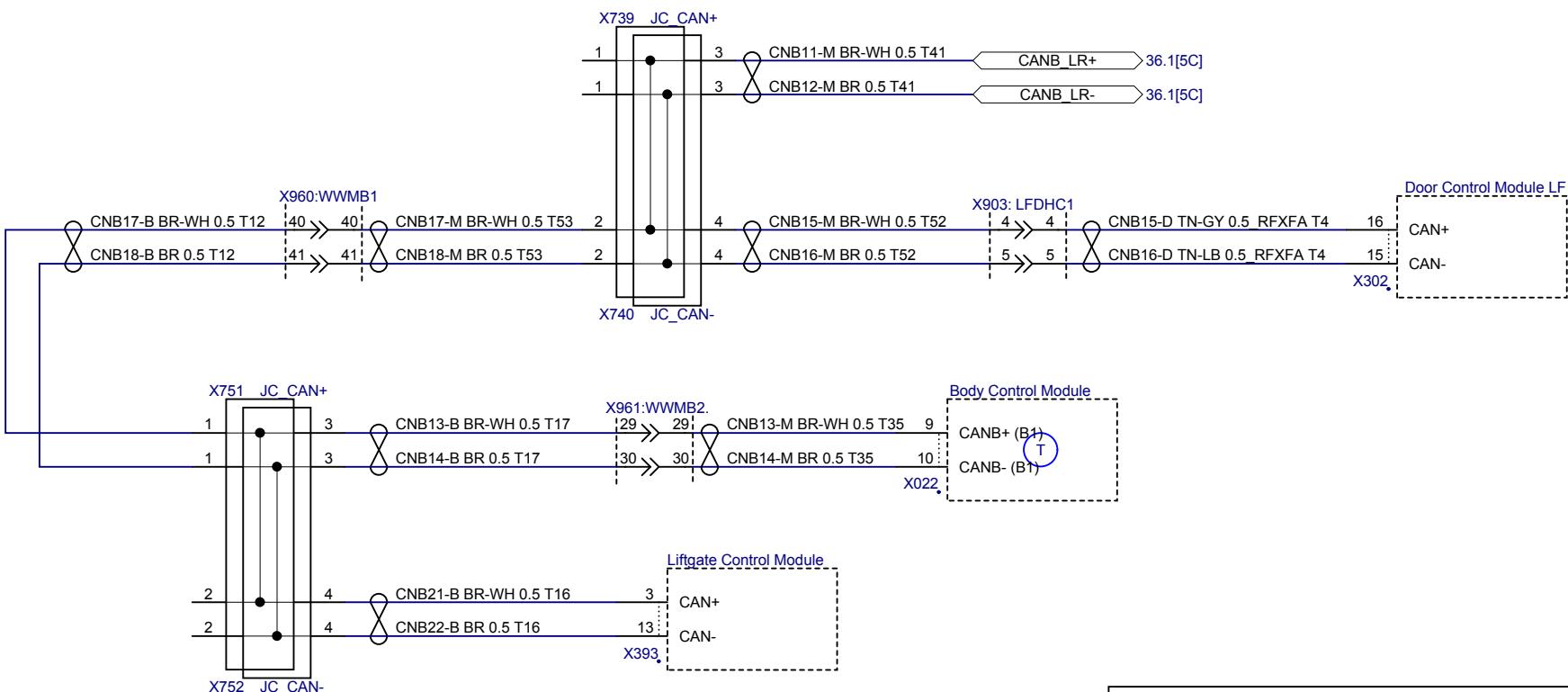
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 36.1

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# TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Body CAN Network

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 36.2

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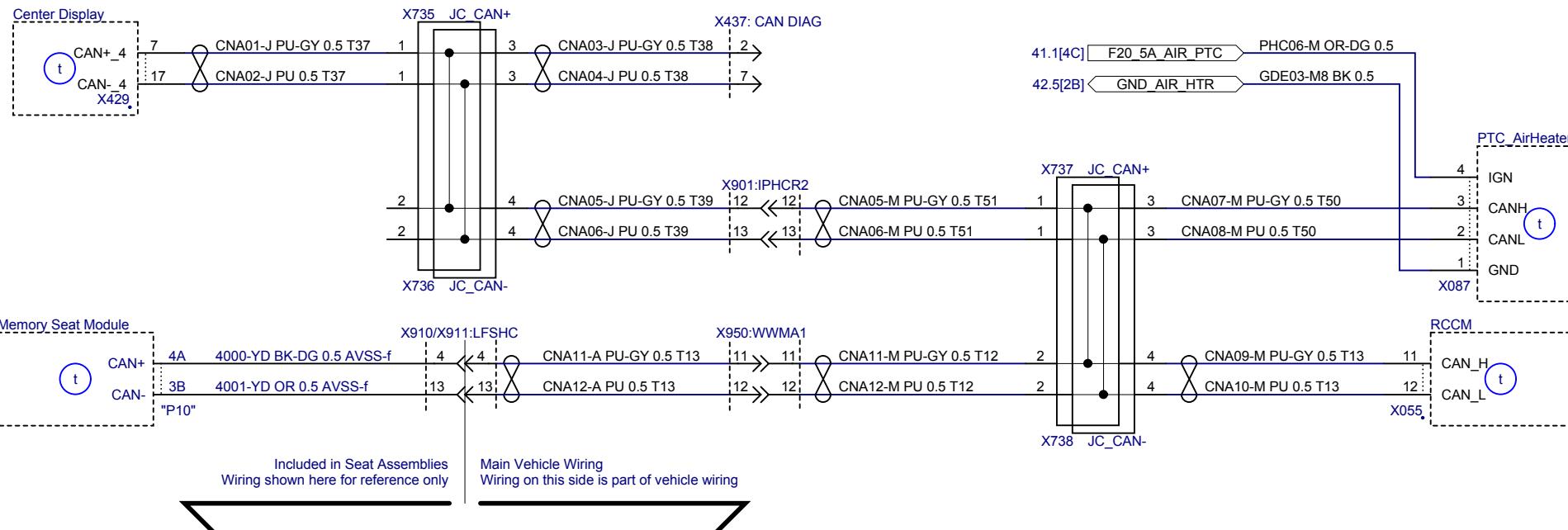
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Included in Seat Assemblies  
Wiring shown here for reference only

## Main Vehicle Wiring

TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME:

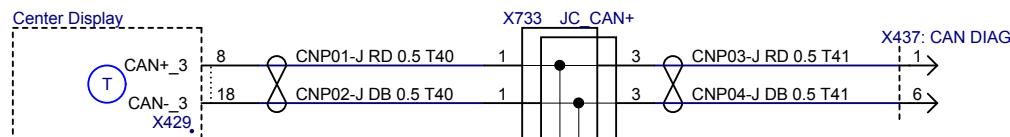
NO. 04573-00-D REVISION: 09 (final) DATE: 5/13/2014

**DO NOT SCALE**

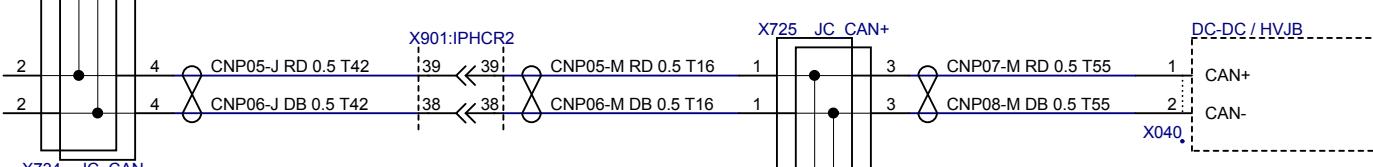
SHEET 37.1

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

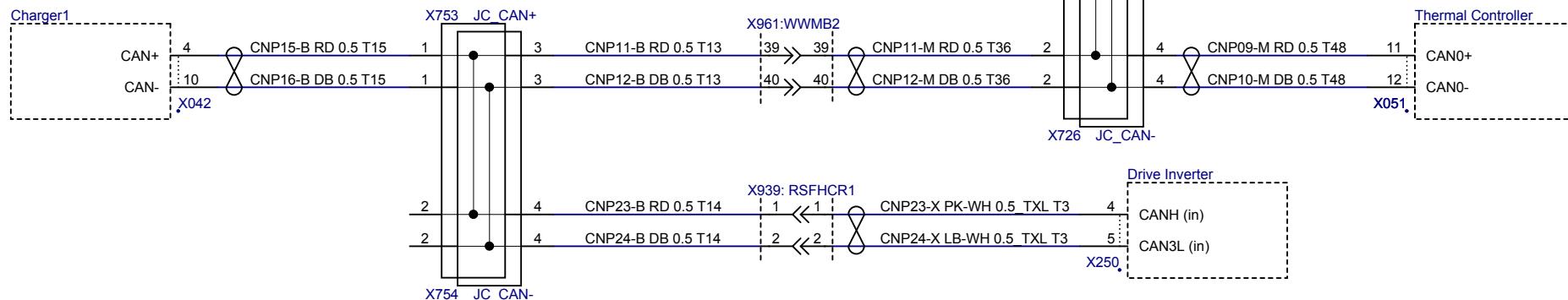
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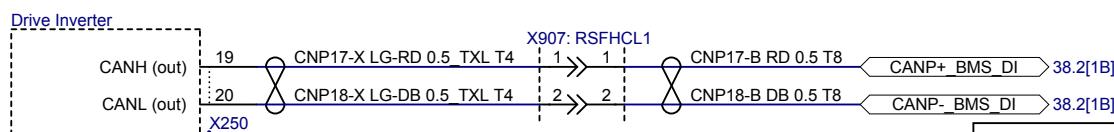
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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: PT CAN Network 1/2

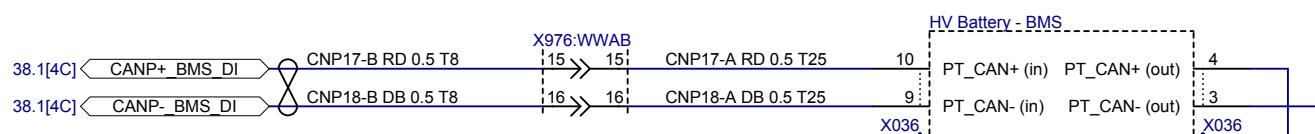
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 38.1

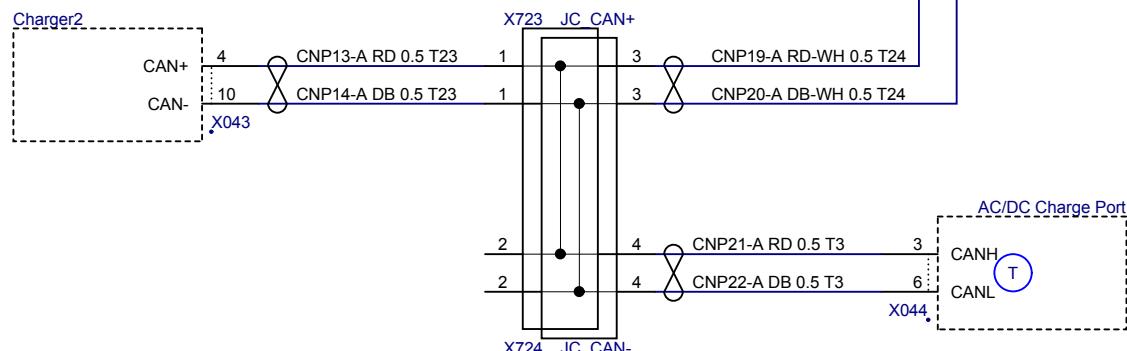
THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

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# TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: PT CAN Network 2/2

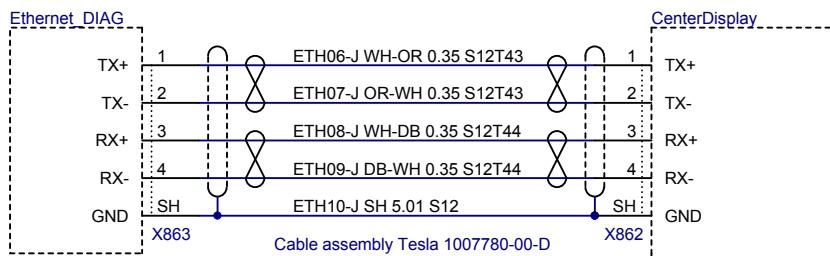
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

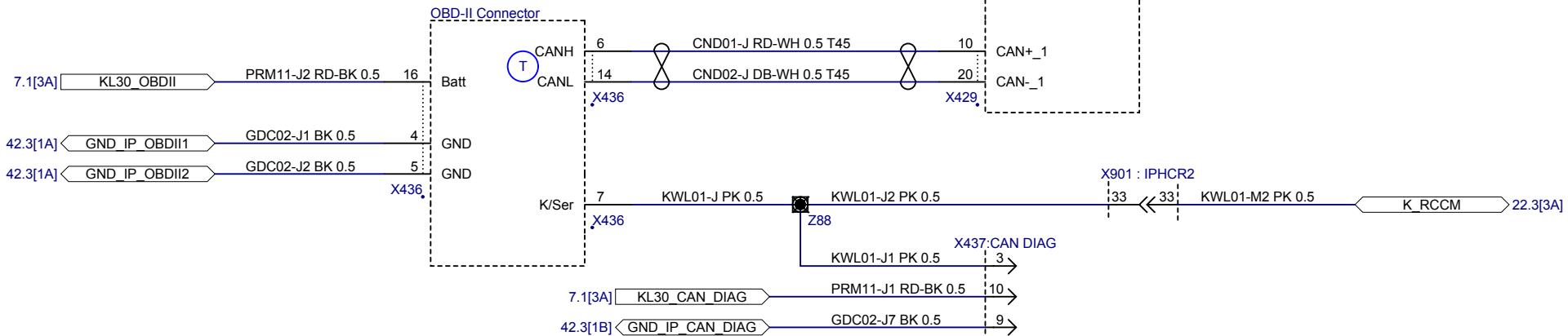
SHEET 38.2

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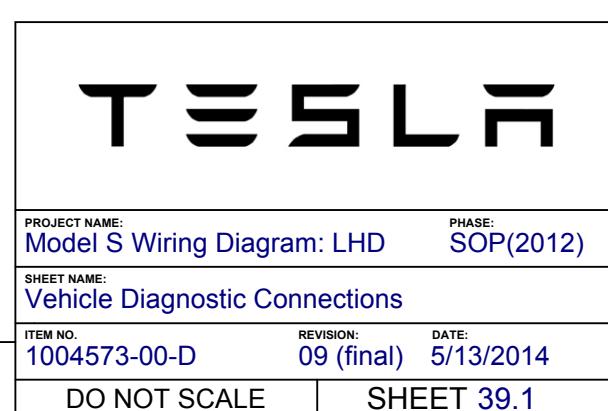
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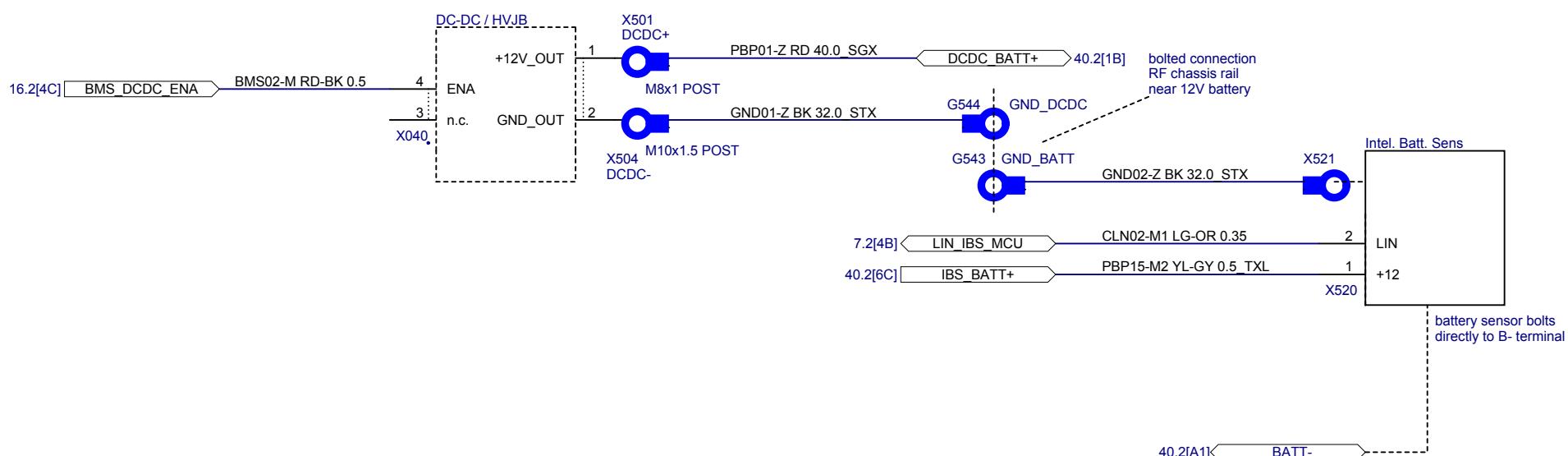
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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

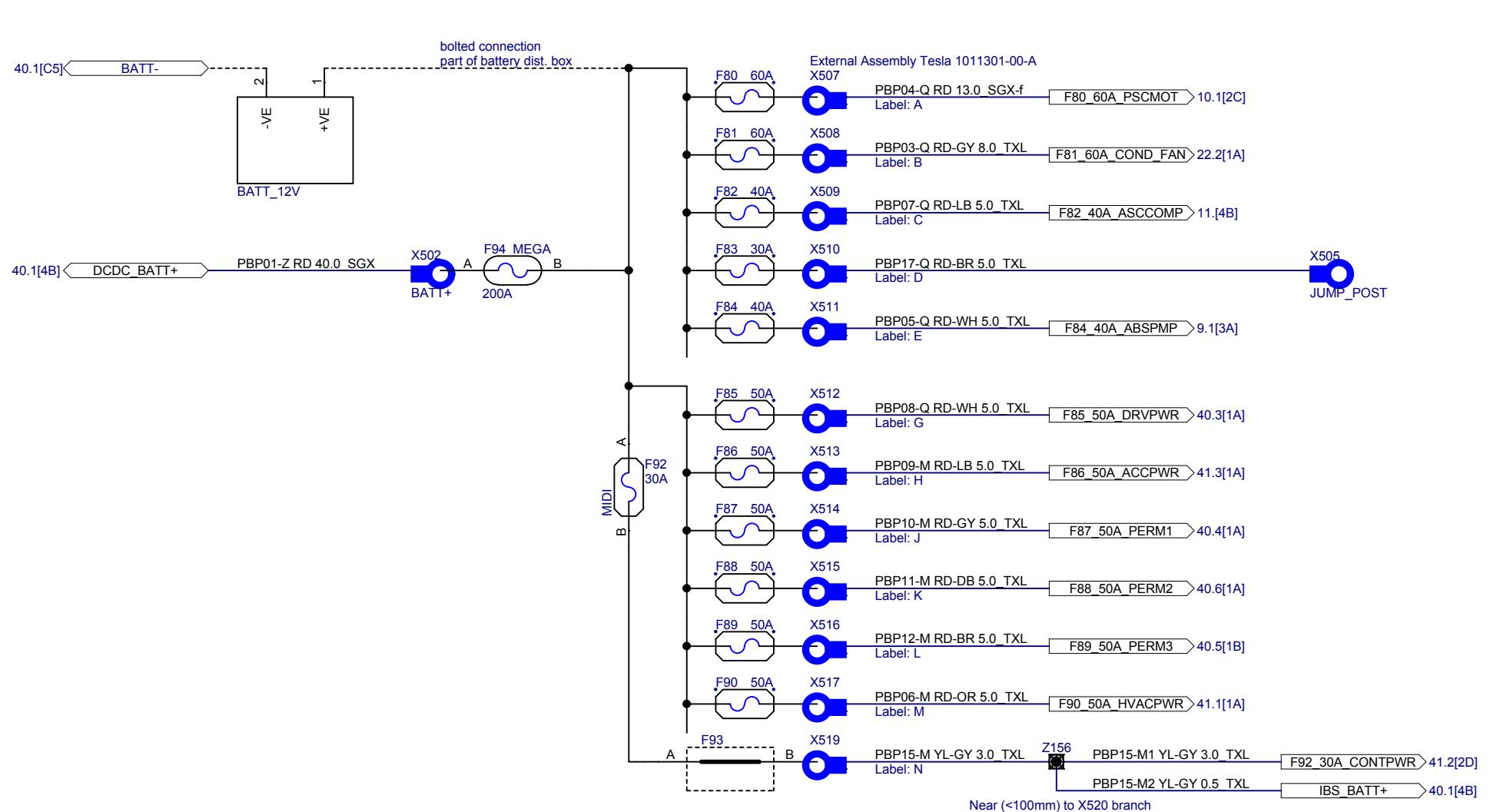
SHEET NAME: DC-DC + 12V Battery Sensor

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 40.1

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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: 12V Battery Distribution

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 40.2

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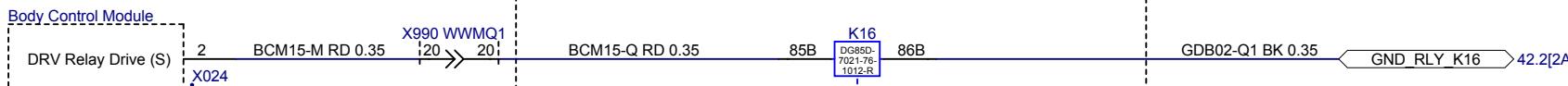
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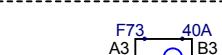
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## X559: FRONT FUSE/RELAY BOX - K15-K16

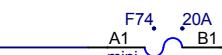
PDR10-Q4 WH 3.0  
PDR10-Q3 WH 3.0  
PDR10-Q2 WH 3.0  
PDR10-Q1 WH 5.0

## X557: FRONT FUSE/RELAY BOX - K13+F71-F73



PDR04-Q RD-WH 3.0 → F73\_40A\_VACPUMP 9.3[2C]

## X558: FRONT FUSE/RELAY BOX - K14+F74-F79



PDR11-Q RD-WH 3.0 → X992 WWMQ3 → 3 ← 3 → PDR11-M RD-WH 3.0 → F74\_20A\_DRV\_CAB 41.4[1C]

PDR01-Q WH-BK 0.5 → F75\_5A\_PSC\_IGN 10.1[2C]

PDR07-Q1 WH-DB 0.5 → F76\_5A\_ABS\_LOG 9.1[4A]  
PDR07-Q2 WH-DB 0.5 → F76\_5A IGN\_VACRLY 9.3[3C]

PDR01-Q RD-OR 2.0 → F77\_25A\_ABSVVL 9.1[4A]

PRM22-Q BR-PU 3.0 → F78\_20A\_XENON 17.1[2B]

PRM24-Q RD-LG 3.0 → F79\_30A\_EXTLT 17.1[2B]

TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

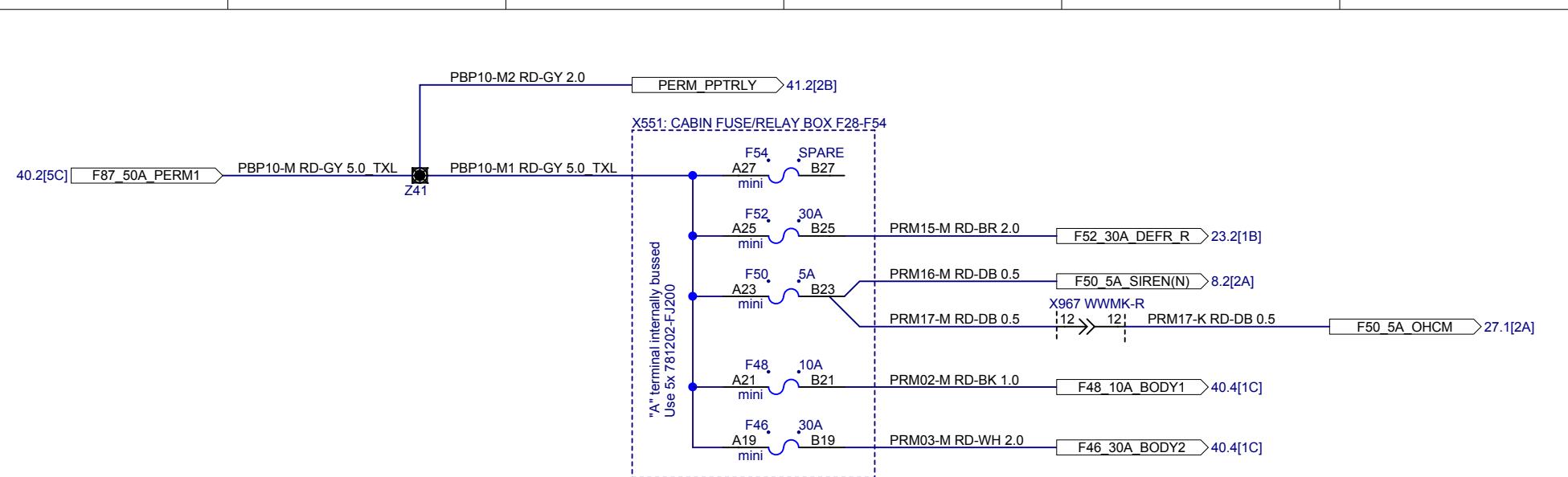
SHEET NAME: Front Power Dist. - Drive, ABS Valves, HVAC

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 40.3

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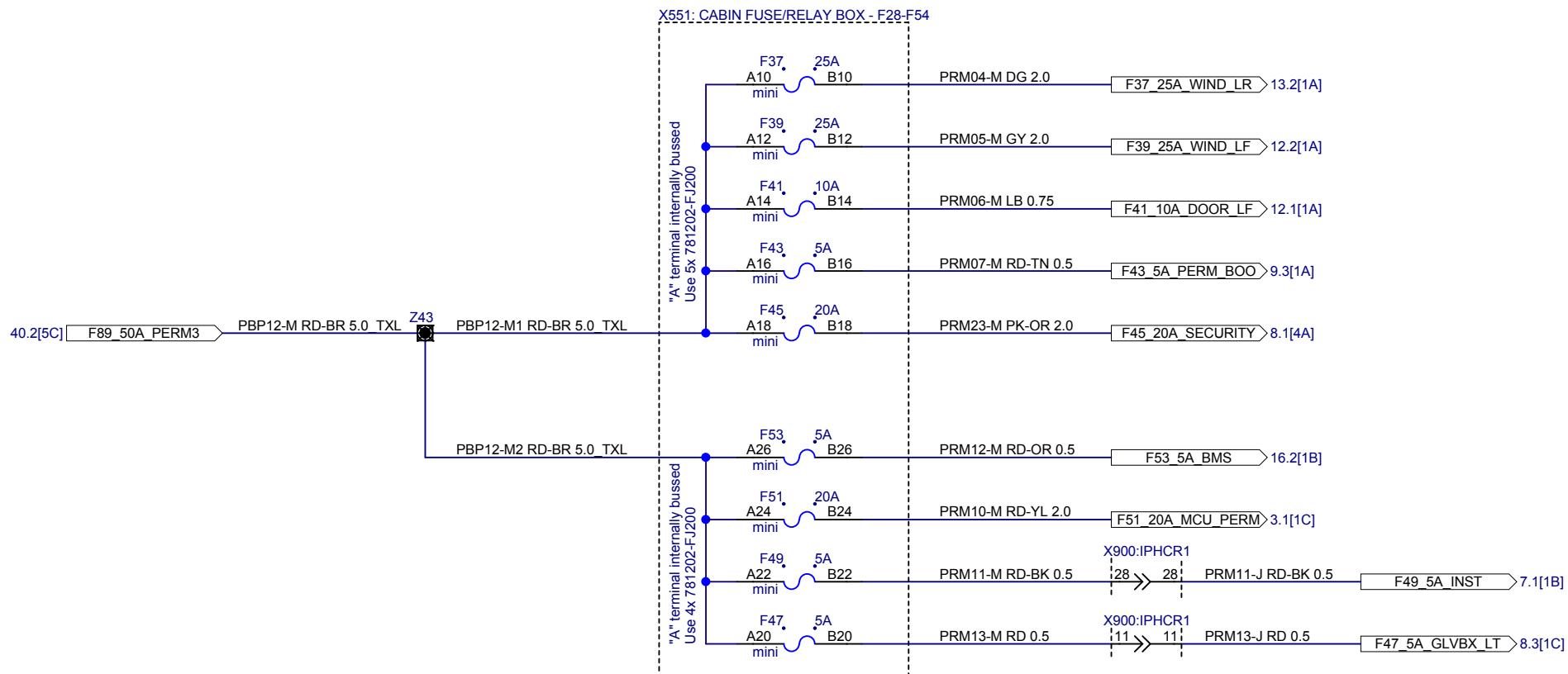


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PROJECT NAME:	Model S Wiring Diagram: LHD	PHASE:	SOP(2012)
SHEET NAME:	BCM Power Connections + KL30 Dist.		
ITEM NO.	1004573-00-D	REVISION:	09 (final) 5/13/2014
DO NOT SCALE	SHEET 40.4		

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# TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: KL30 Distribution

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

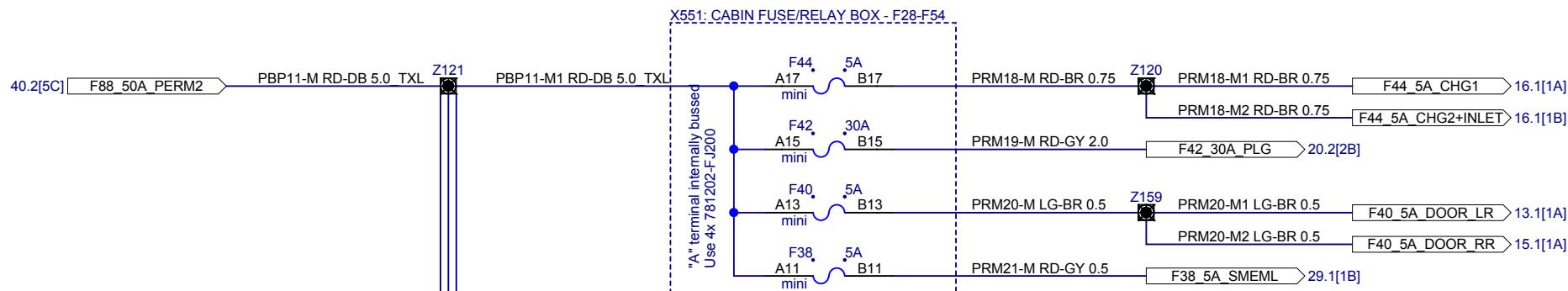
DO NOT SCALE

SHEET 40.5

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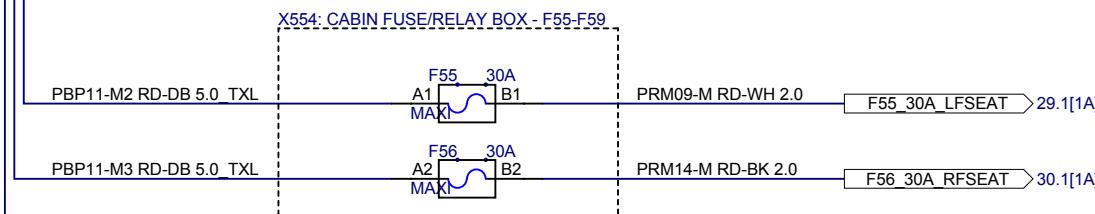
A

A



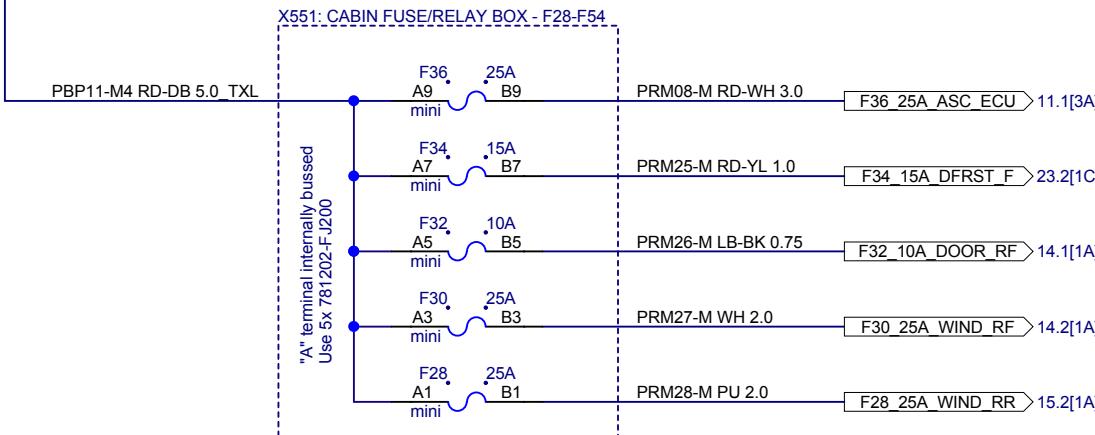
B

B



C

C



D

D

**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

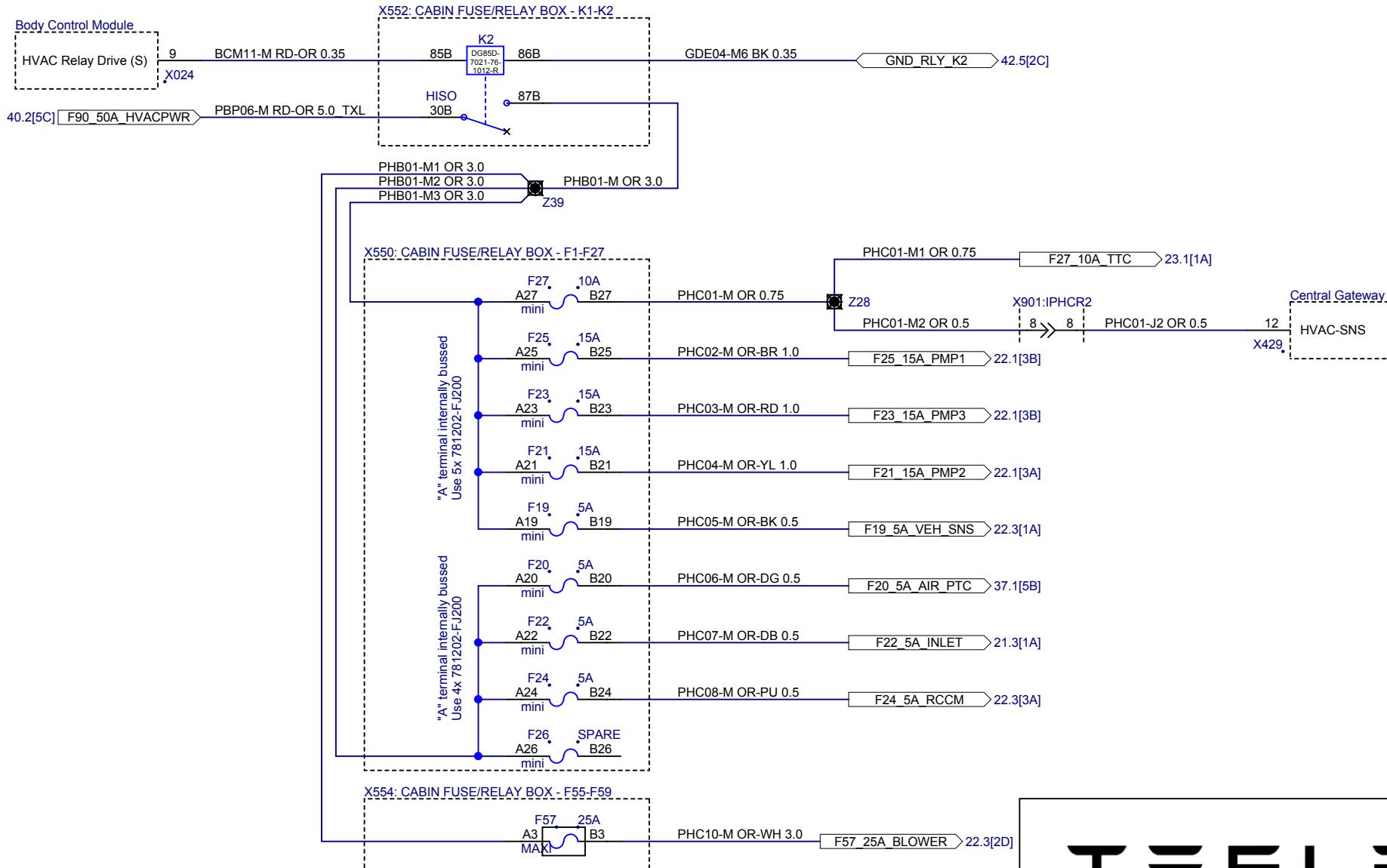
SHEET NAME: KL30 Distribution

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 40.6

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PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

**SHEET NAME:** Power Distribution - HVAC Low Power

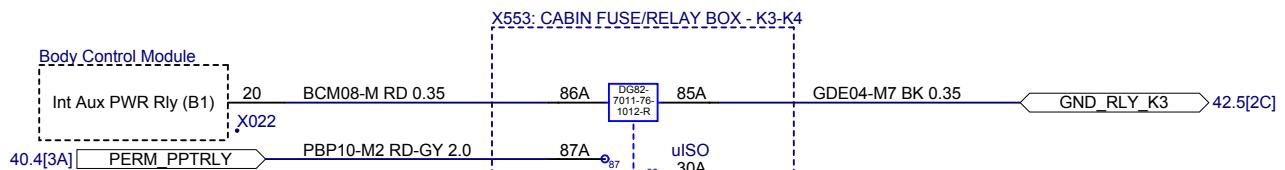
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

**DO NOT SCALE**

SHEET 41.1

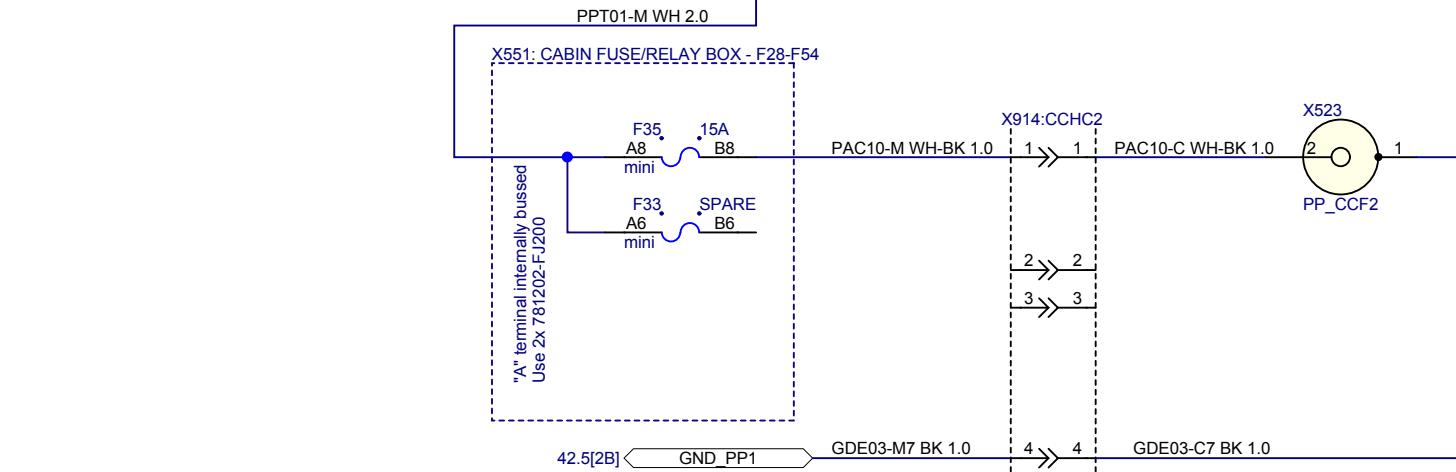
A

A



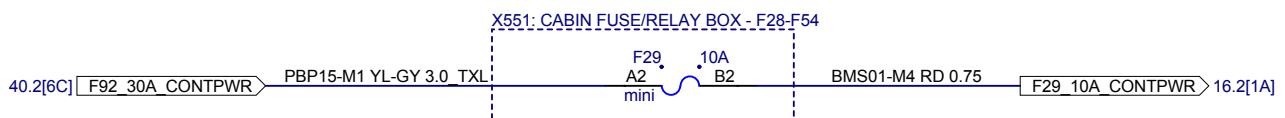
B

B



C

C



D

D

**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: 12V Accessory Outlet

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

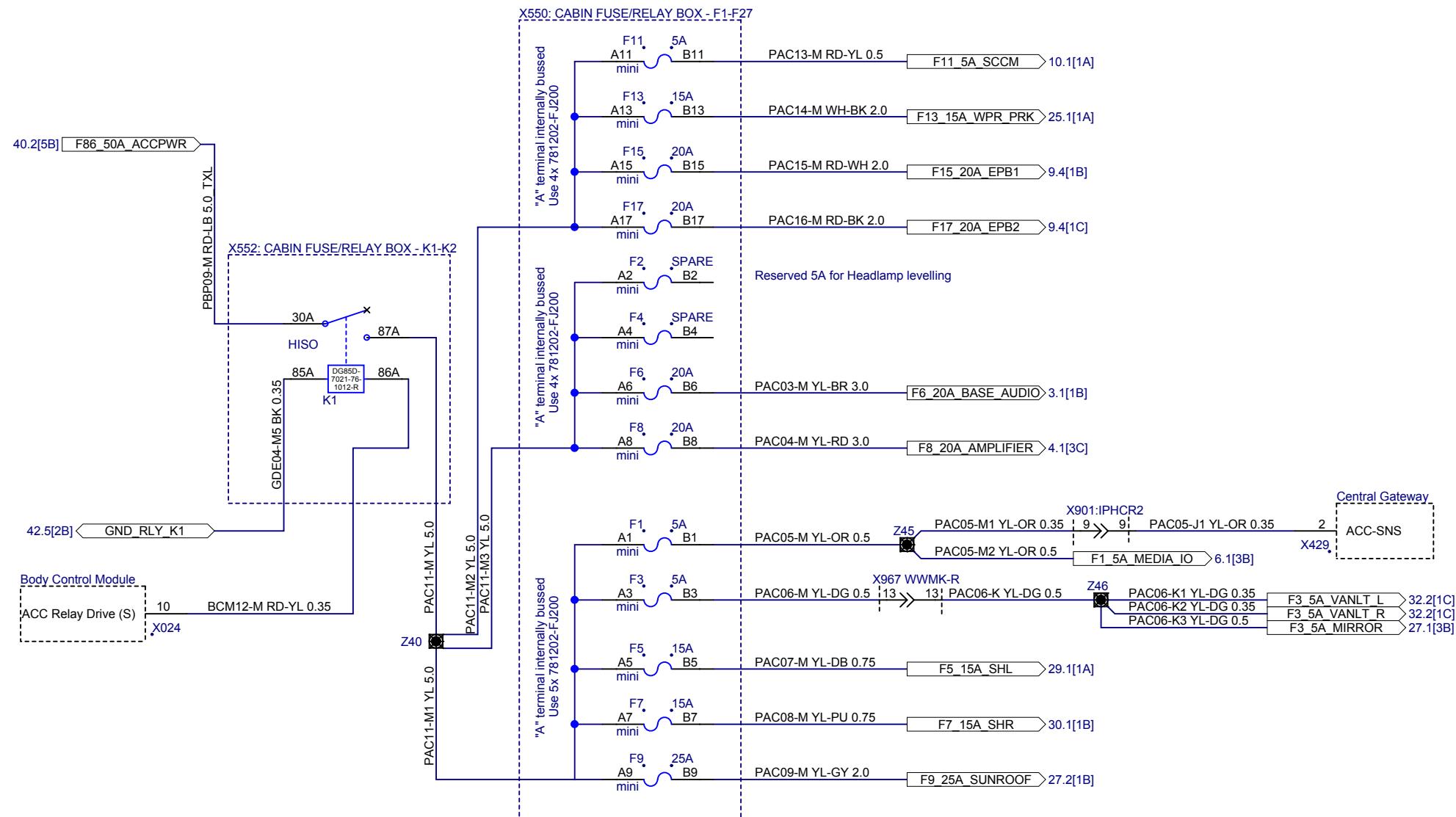
DO NOT SCALE

SHEET 41.2

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A

A



T E S L A

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Power Distribution - ACC

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 41.3

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A

A

B

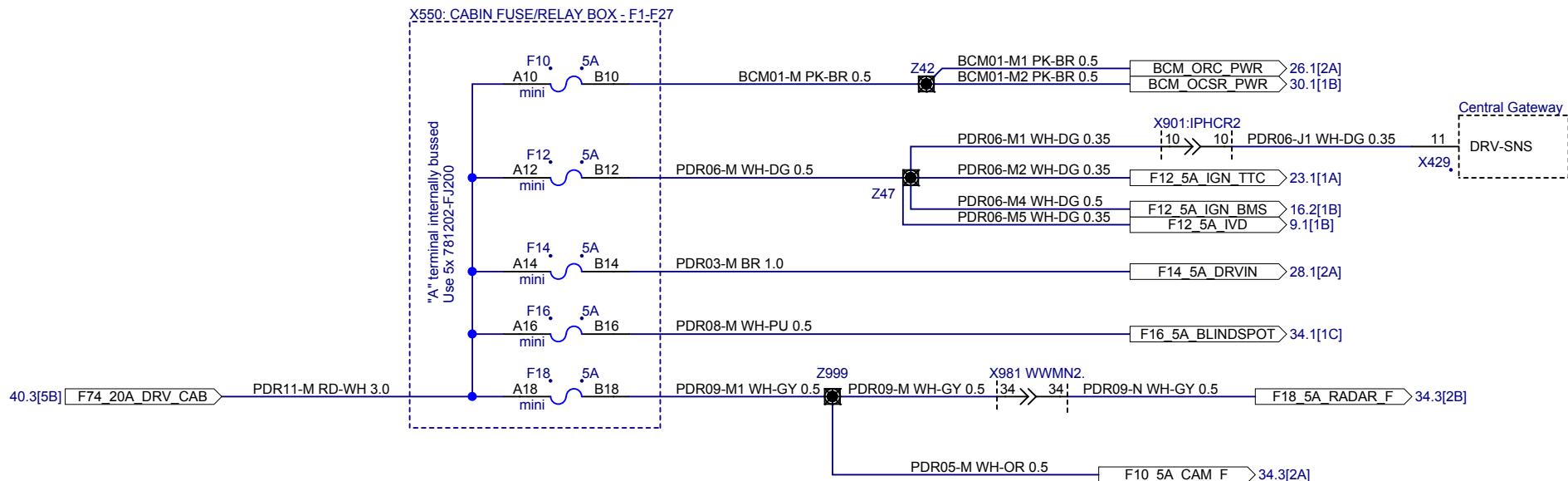
B

C

C

D

D



**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Power Distribution - DRV

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

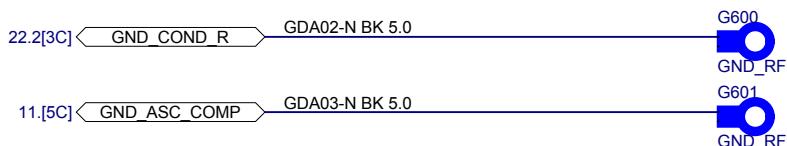
DO NOT SCALE

SHEET 41.4

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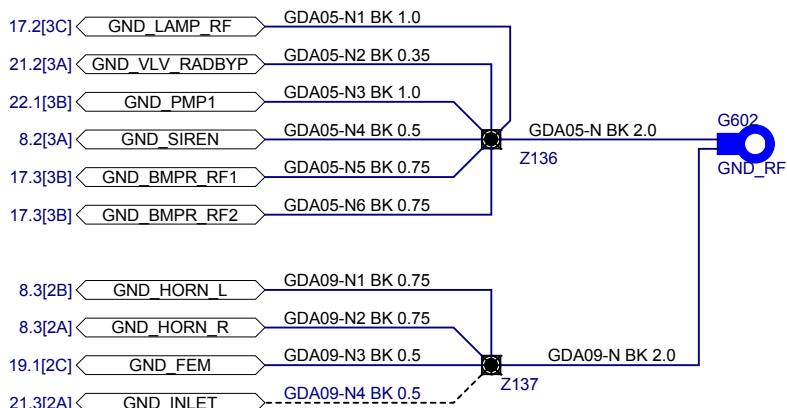
## RF Ground Point - Forward of Wheel

A



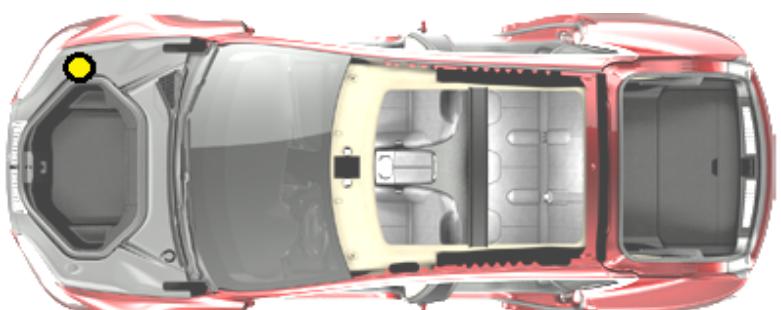
A

B



B

C



D

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# TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

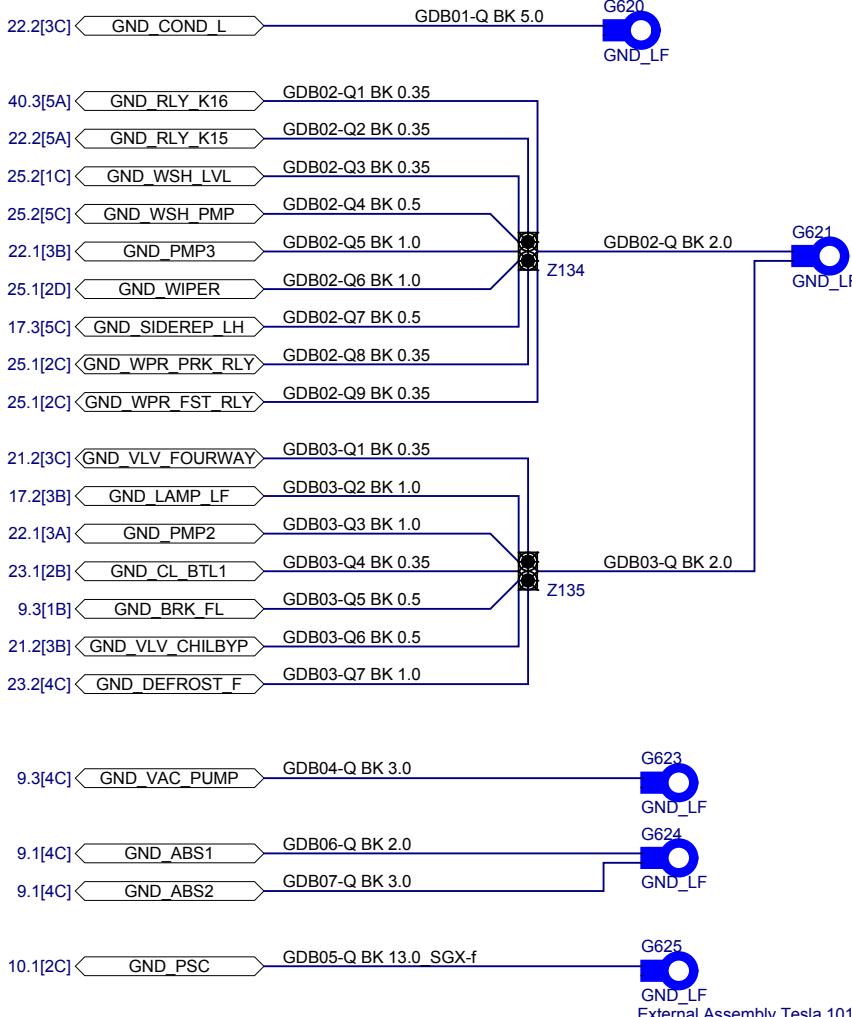
SHEET NAME: Ground Distribution - Right Front

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

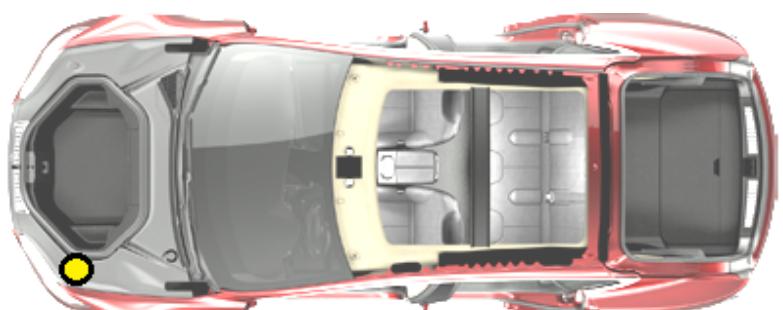
DO NOT SCALE

SHEET 42.1

LF Ground Point - Forward of Wheel



External Assembly Tesla 1011301-00-A



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# TESLA

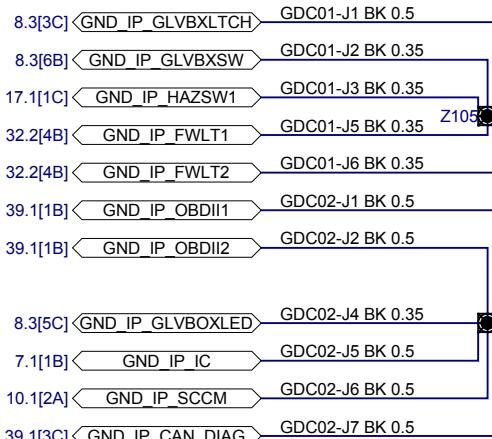
PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Ground Distribution - Left Front

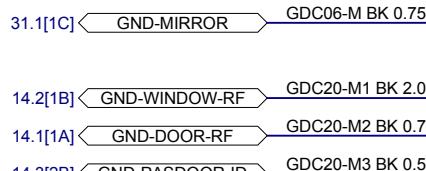
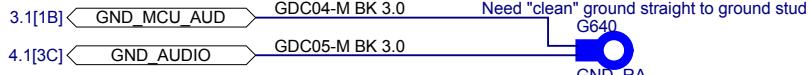
ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 42.2



RH A-pillar Ground Point



8.1[5A] GND-HDL-OHCM GDC03-K2 BK 0.5

32.1[5C] GND-HDL-VANLT-L GDC03-K3 BK 0.35

32.1[5C] GND-HDL-VANLT-R GDC03-K4 BK 0.35

32.1[2A] GND-HDL-MPLT-LF GDC03-K8 BK 0.35

32.1[2A] GND-HDL-MPLT-RF GDC03-K9 BK 0.35

32.1[2B] GND-HDL-MPLT-LR GDC03-K5 BK 0.35

32.1[2B] GND-HDL-MPLT-RR GDC03-K6 BK 0.35

34.1[5D] GND-HDL-CAM-F GDC03-K7 BK 0.35

19.1[2C] GND-BCM-CFG1 GDC12-M4 BK 0.5

17.1[5D] GND-SIDEREPO-RH GDC12-M3 BK 0.5

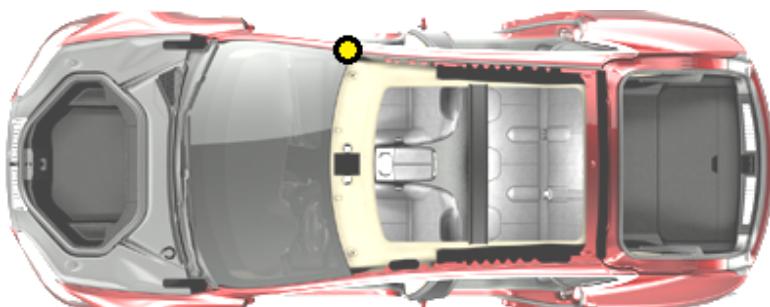
40.1[6H] GND-BCM2 GDC12-M2 BK 2.0

27.1[1B] GND-SUNROOF GDC12-M1 BK 2.0



MAIN Body Harness

RIGHT Body Harness



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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Ground Distribution - RHS A-Pillar

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

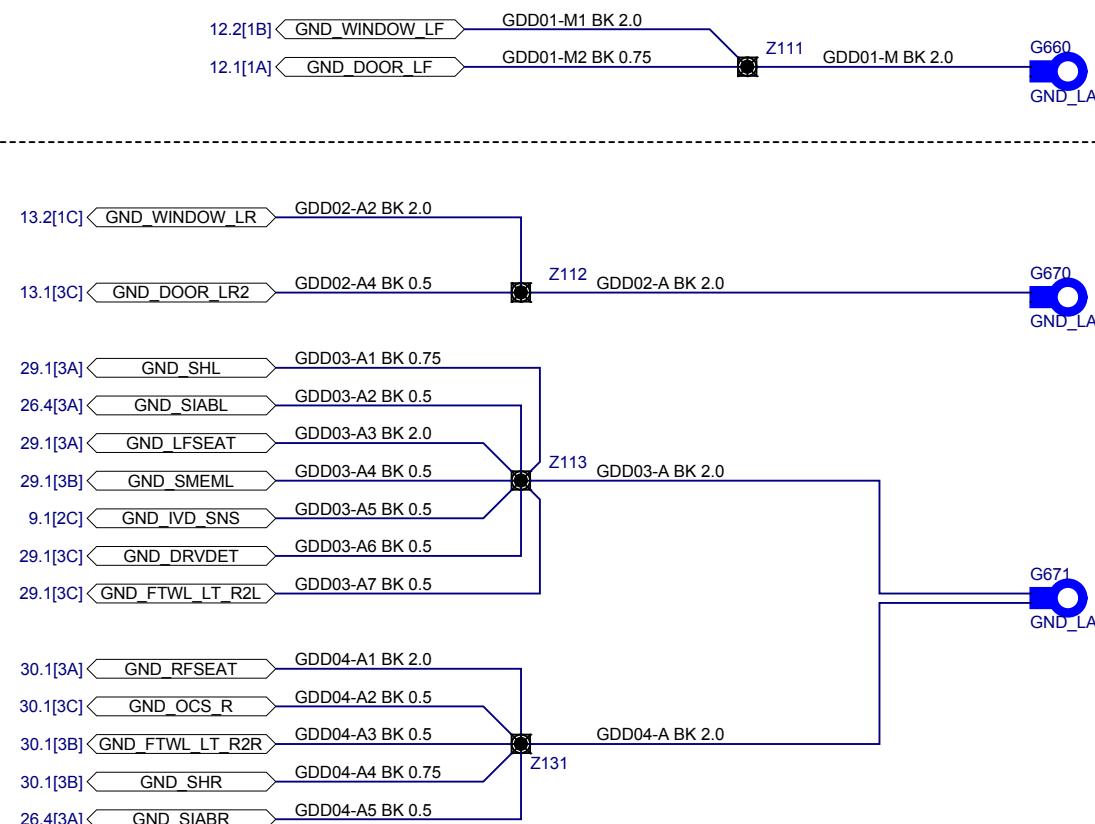
SHEET 42.3

## LH A-pillar Ground Point

A

MAIN Body Harness

LEFT Body Harness



B

C

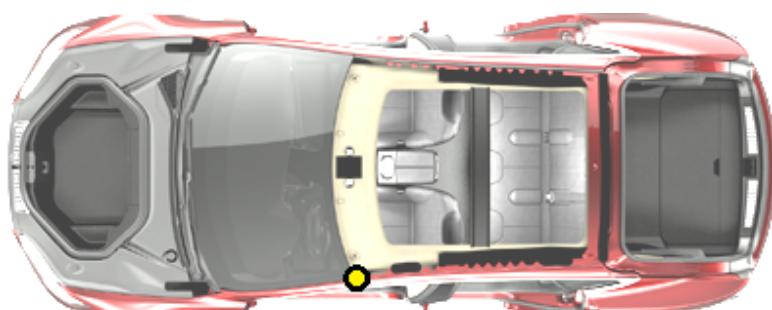
D

A

B

C

D



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**TESLA**  
PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

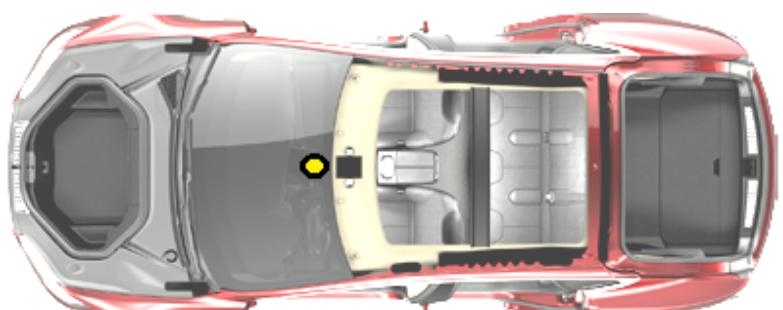
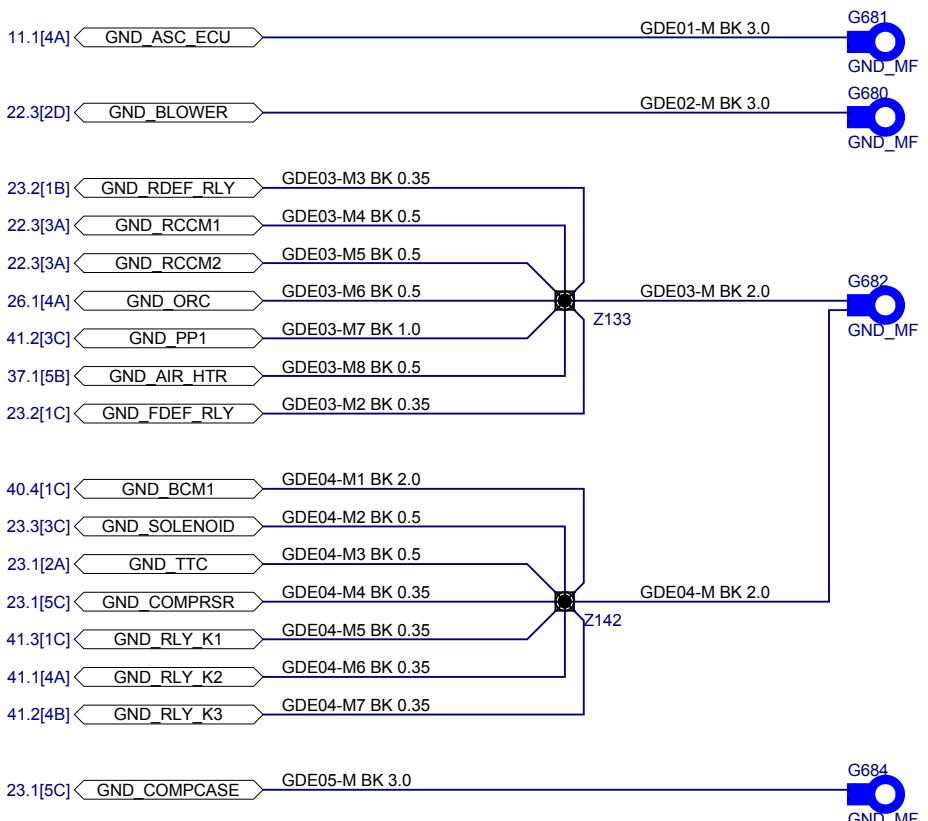
SHEET NAME: Ground Distribution - LHS A-pillar

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 42.4

## Middle Ground Point



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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Ground Distribution - Lower Center Stack

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

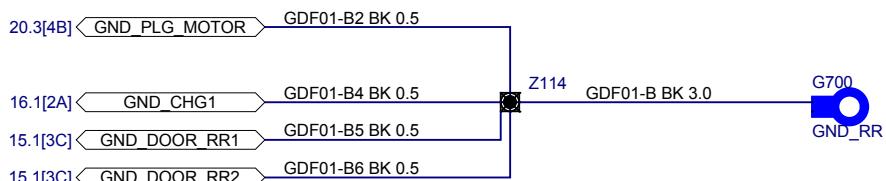
DO NOT SCALE

SHEET 42.5

## RR Ground Point - Behind Wheel

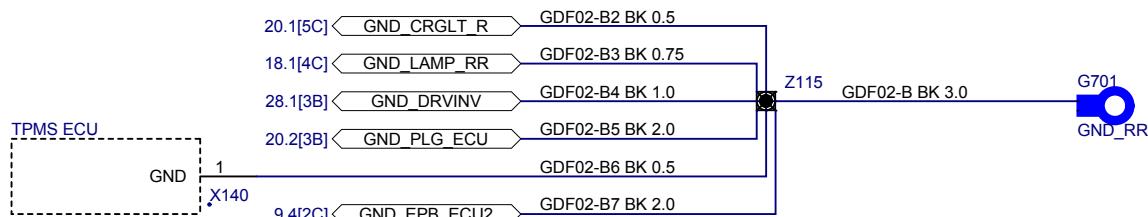
A

A



B

B



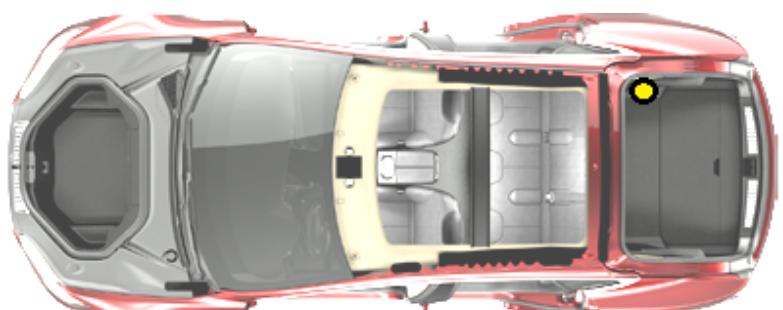
C

C



D

D



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# TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Ground Distribution - Right Rear

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 42.6

## LR Ground Point - Behind Wheel

A

A

B

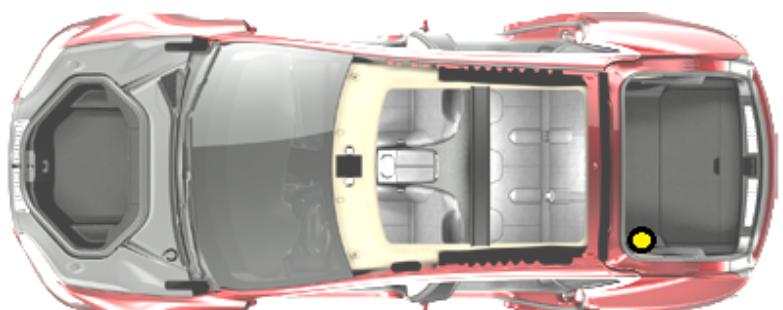
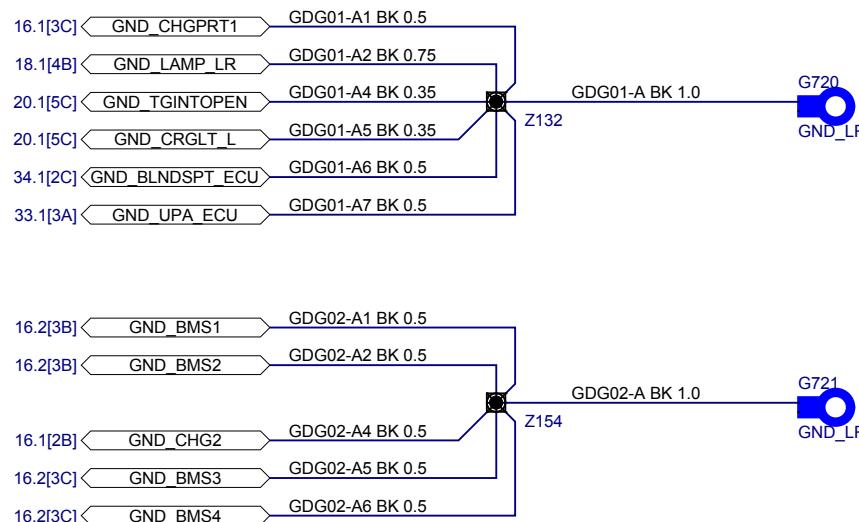
B

C

C

D

D



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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

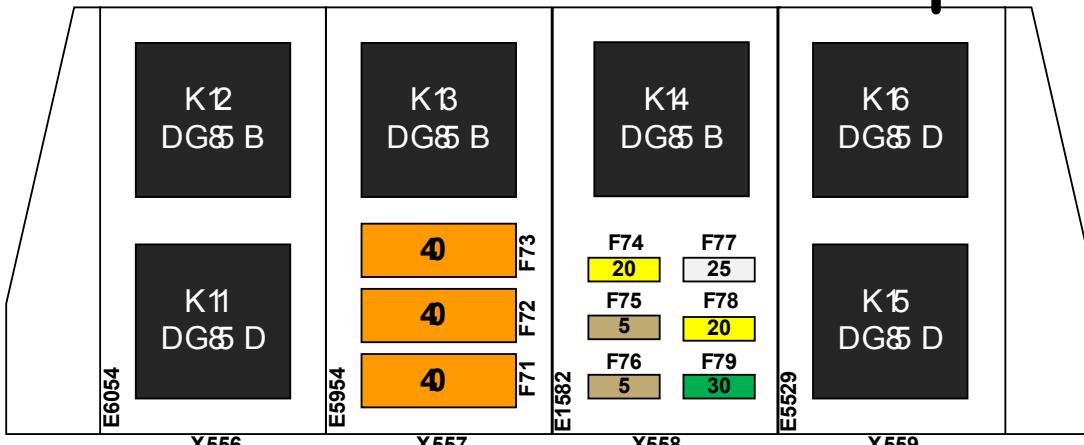
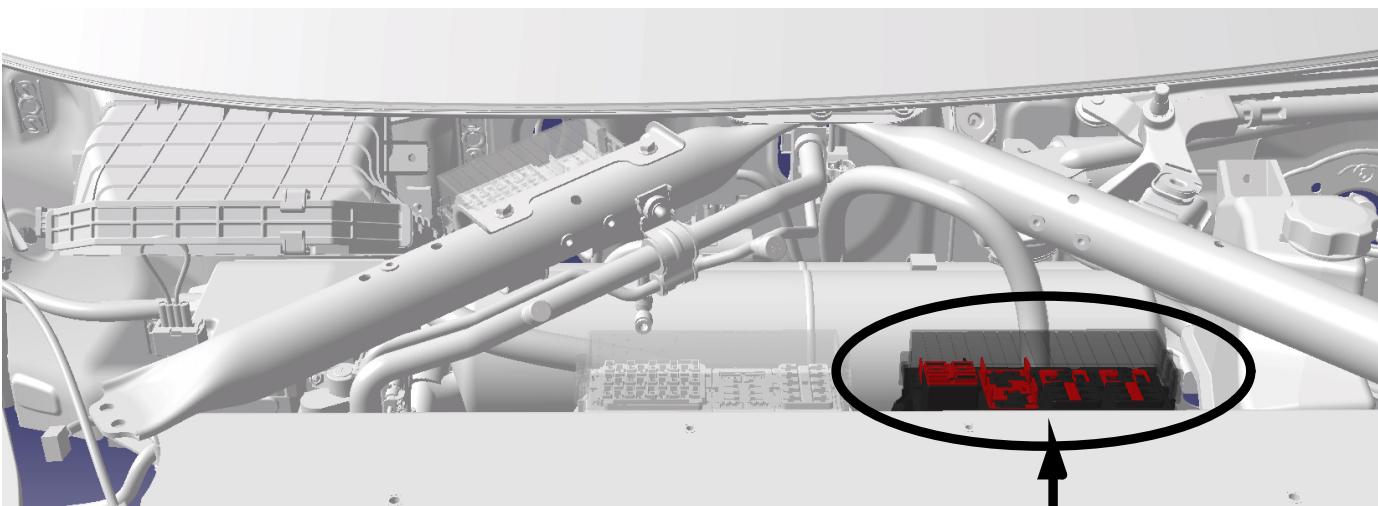
SHEET NAME: Ground Distribution - Left Rear

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 42.7

K11 Air Suspension Compressor  
 K12 Vacuum Pump  
 K13 Wiper Park Function  
 K14 Wiper Fast Function  
 K15 Condenser Fan Power  
 K16 Drive Switched Power  
 F71 Condenser Fan, Left  
 F72 Condenser Fan, Right  
 F73 Vacuum Pump  
 F74 12V Drive Rail, Cabin  
 F75 Power Steering Logic - IGN  
 F76 ABS Logic - IGN  
 F77 Stability Control Valves  
 F78 Headlight Dip/Main Beam  
 F79 Lighting (Exterior/Interior)



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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

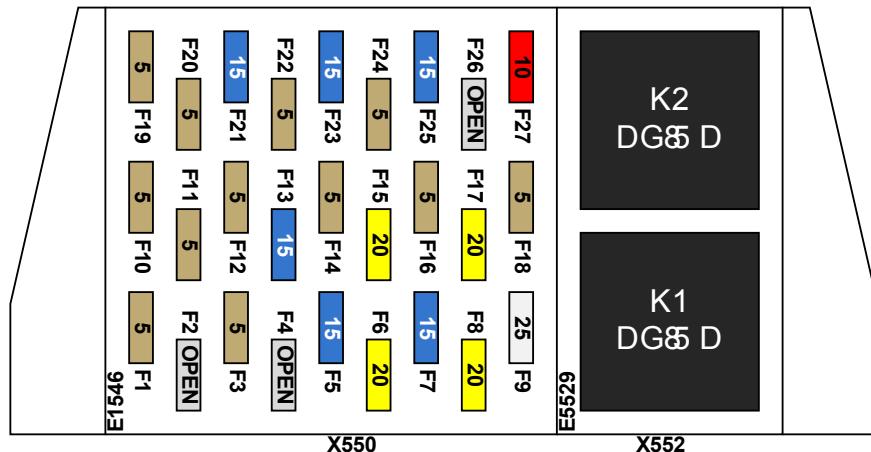
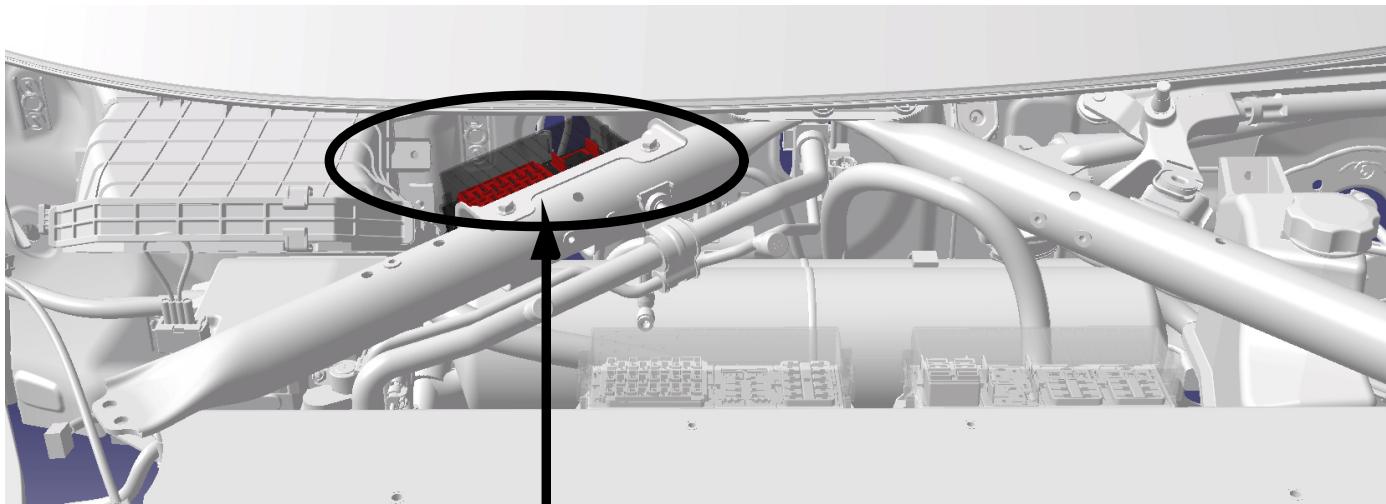
SHEET NAME: Front Fusebox Layout

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 44.1

F1 ACC sense, Radio, USB Hub  
 F2 not used  
 F3 Vanity Lights, Rear View Mirror  
 F4 not used  
 F5 Seat Heater, Driver  
 F6 Base Audio Amplifier  
 F7 Seat Heater, Front Passenger  
 F8 Premium Audio Amplifier  
 F9 Panoramic Sunroof  
 F10 Passive Safety Restraints  
 F11 Steering Column Controls  
 F12 Drive Sense / Yaw Sensor  
 F13 Wiper Park  
 F14 Drive Inverter  
 F15 Electric Park Brake  
 F16 not used  
 F17 Electric Park Brake  
 F18 not used  
 F19 HVAC In-car sensor  
 F20 Cabin Air Heater Logic  
 F21 Coolant Pump 2  
 F22 Inlet Actuators  
 F23 Coolant Pump 3  
 F24 Cabin Climate Control  
 F25 Coolant Pump 1  
 F26 not used  
 F27 Thermal Controller  
 K1 ACC Power Switch  
 K2 HVAC Power Switch



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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

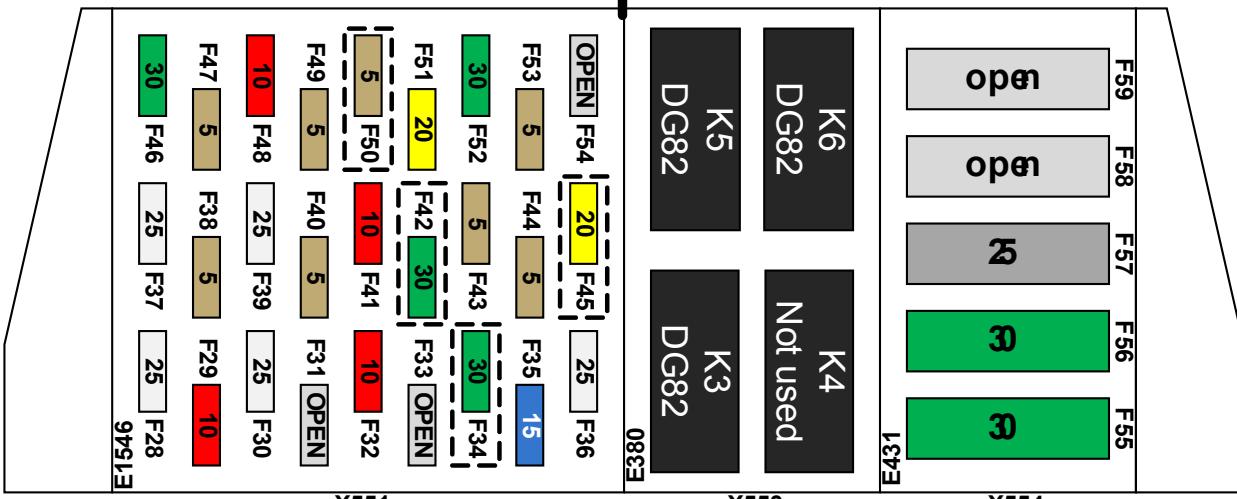
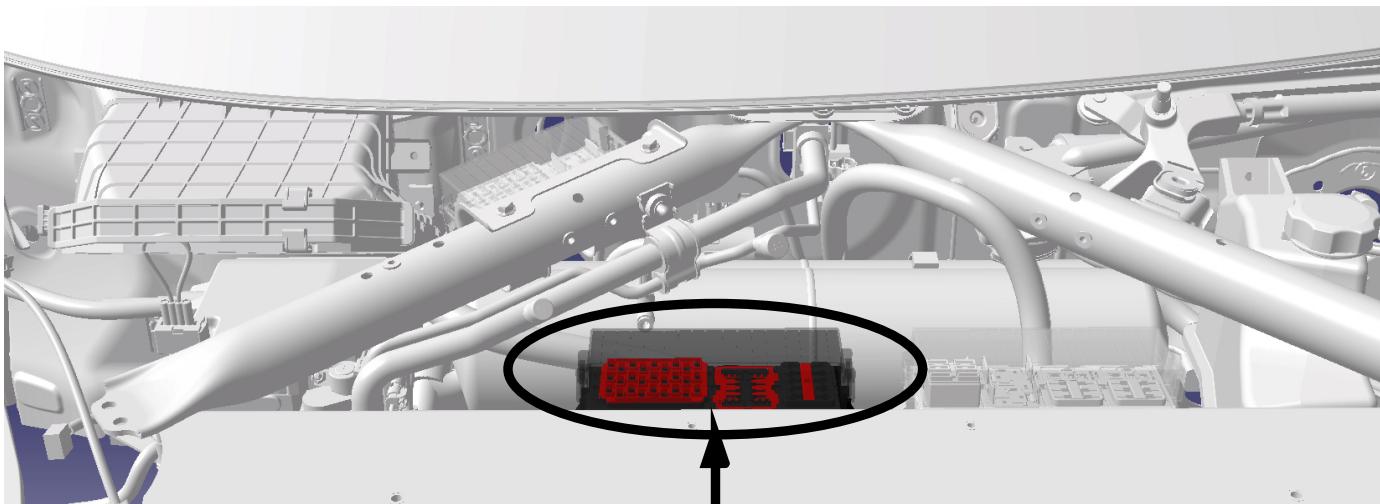
SHEET NAME: "Cabin" Fusebox 1 Layout

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 8/13/2014

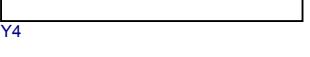
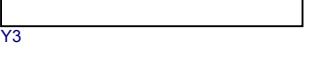
DO NOT SCALE

SHEET 44.2

F28 Window Lift Motor, Right Rear  
 F29 Contactor Power  
 F30 Window Lift Motor, Right Front  
 F31 not used  
 F32 Door Controls, Right Side  
 F33 not used  
 F34 not used  
 F35 12V Accessory Outlet  
 F36 Air Suspension Ctrl, Valves  
 F37 Window Lift Motor, Left Rear  
 F38 Driver's Seat Memory  
 F39 Window Lift Motor, Left Front  
 F40 Rear Door Handles  
 F41 Door Controls, Left Side  
 F42 Power Liftgate  
 F43 Perm. Power Sense, Brake Sw.  
 F44 Charger, Charge Port  
 F45 Passive Entry, Horns  
 F46 Body Controls, Group 2  
 F47 Glove Box Light  
 F48 Body Controls, Group 1  
 F49 Instrument Cluster  
 F50 not used  
 F51 Touchscreen  
 F52 Heated rear window  
 F53 Battery Management System  
 F54 not used  
 F55 Left Front Electric Seat  
 F56 Right Front Electric Seat  
 F57 Cabin Fan  
 F58 not connected  
 F59 not connected  
 K3 12V Outlet Switch  
 K4 not connected  
 K5 Rear Defrost Grid  
 K6 Front Defrost Grid



Assembly AEES R65329-001-A (fuses and relays separate)



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TESLA

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: "Cabin" Fusebox 2 Layout

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

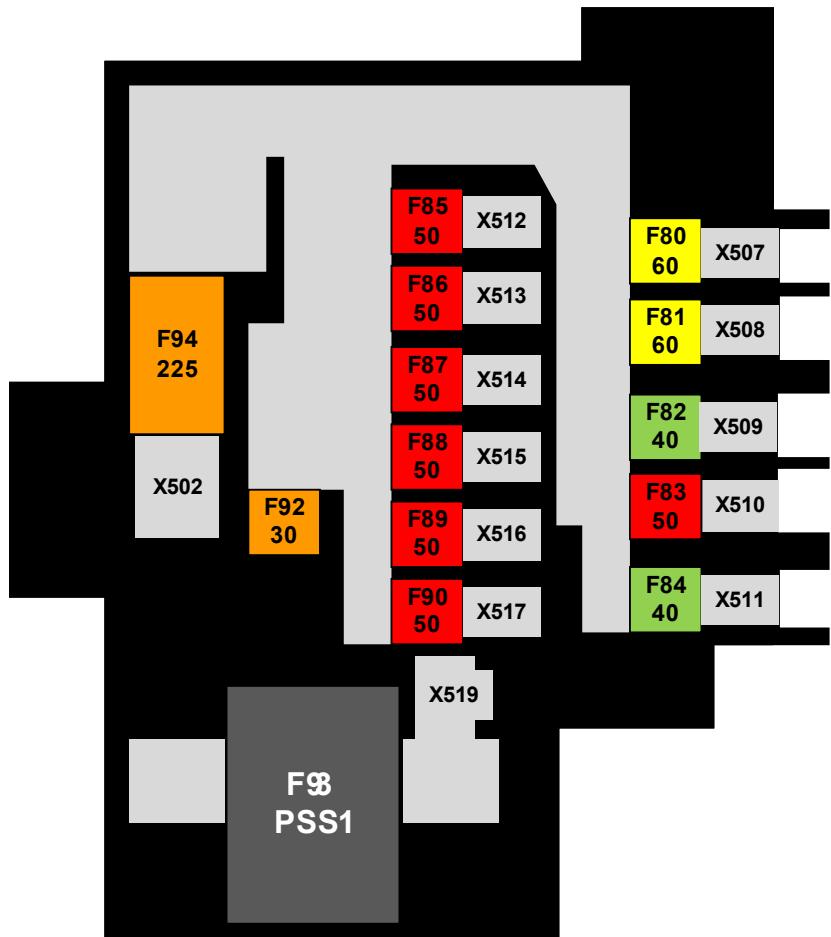
DO NOT SCALE

SHEET 44.3

A



B



Loc.	Description / Function	Type	Des.
F80	Power Steering	MIDI	X507
F81	Condenser Fans Master Fuse	MIDI	X508
F82	Air Suspension Compressor	MIDI	X509
F83	Jump Post	MIDI	X510
F84	ABS Motor	MIDI	X511
F85	Drive 12V Power Master Fuse	MIDI	X512
F86	ACC 12V Bus Master Fuse	MIDI	X513
F87	Permanent Power Group 1	MIDI	X514
F88	Permanent Power Group 2	MIDI	X515
F89	Permanent Power Group 3	MIDI	X516
F90	HVAC 12V Bus Master Fuse	MIDI	X517
F92	Contactor Power	MIDI	X503
F93	BDS: Contactor Power Cutoff	PSS1	X519
F94	Battery-DCDC Master Fuse	MEGA	X502

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**TESLA**

PROJECT NAME: Model S Wiring Diagram: LHD PHASE: SOP(2012)

SHEET NAME: Battery-Mounted Fusebox Layout

ITEM NO. 1004573-00-D REVISION: 09 (final) DATE: 5/13/2014

DO NOT SCALE

SHEET 44.4